



!INNOVATION

ANNUAL REPORT

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İSMAİL GÜLLE
TIM CHAIRMAN

“Aware that our country’s bright future depends on innovation and development, we collected whole our projects, activities and workshops under the name “TIM Innovation and Entrepreneurship Academy”.”

INNOVATION WILL BE THE PIONEER FOR OUR GOAL, “TÜRKİYE, HAVING FOREIGN TRADE SURPLUS”

We have passed the year 2019 which we announced as the ‘Year of Sustainability and Innovation’. 2019 has been a year in which we have reached many records in the field of export and have supported the growth of our country. We have reached the record of the history of the Republic with an annual export amount of 180,9 billion dollars. During the eight months of 2019, our exporters have reached the records of the history of the Republic on a monthly basis. The challenges in the global trade did not deter us, our exporters always gravitated to the better and leading edge. In 2020, when we have been struggling with the Covid-19 epidemic, we not only continued to work for the maintaining productions in process, and the customs to operate despite these extraordinary conditions, we also started the production mobilization to overcome this global crisis without any damage. Acknowledging that the bright future of our country is dependent upon the innovation-based development, we have taken to gathering all training, events and workshops executed in the name of innovation and entrepreneurship under ‘TIM Innovation & Entrepreneurship Academy’. As precious for our Assembly, every project of TIM Innovation & Entrepreneurship Academy makes real many innovative ideas. Each projects’ results open new horizons at the point of making our export volume more qualified with the added value and intensive technology which is the

main goal of TIM. Especially organising the first and the most comprehensive international event of Türkiye in the innovation field, namely Türkiye Innovation Week, since 2012 in coordination with the Ministry of Trade, plays a critical role in increasing the awareness for innovation. We would like to express our thanks to the notably to President Mr Recep Tayyip Erdoğan, distinguished ministers of our government and representatives of our business world, for attending the Türkiye Innovation Week. Welcoming more than 40 thousand guests and exhibiting genuine innovative products at the Innovation Week event which was held on 3th-4th May, show us that the awareness for innovation in our country has reached a significant level and an important intellectual transformation regarding entrepreneurship and innovation. We know that the sole way for reaching our goal of becoming Türkiye, having foreign trade surplus is producing and ensuring added-value production. We all need to build the future of Türkiye together, with our firms those are catching the future, hearing the customer, respecting the employee, designing, knowing the technology is not only as computer and software and focusing on advertising instead of hiding. As field soldiers of trade diplomacy, we will make all the necessary actions to channelize the power we receive from our nearly 100 thousand exporters into the construction of this future.



KUTLU KARAVELİOĞLU
Deputy Chairman of TIM

“THE ROAD IS NOT BETWEEN TWO PLACES, THE PLACE IS BETWEEN TWO ROADS”

I chose my title for commemorating our great philosopher Oruç Aruoba who passed away last May. His piece named “Yürüme” has been an inspiration to me in many opportunities which I addressed to young people, it has conducted to us for questioning the philosophy of walking, being on the road, dedicating yourself to a road.

Walking, to a purpose, to an ideal, to a target, without ever giving up; apart from its individual aspect, is a situation defining or hoped to be defining the situation of ours, the non-governmental or professional organisations. Pausing only for breathing but always being on the move, being in action, in an effort, by producing, learning and teaching how to produce, proceeding passionately for the purpose of serving a community, a nation, a sector, a country.

Always developing by finding a better, a more different alternative, becoming unique, remaining unrivalled in new ways and methods is the exact thing which we call ‘Innovation’. In other words, this is a phenomenon to be internalised, a life-style to be adopted; also known as ‘inventiveness’. This, of course, is not a natural, directly owned ability: It is surely a talent to could be learned by practising, improved by different methods, and

also requires many necessities to diffuse into the corporate identity.

TIM has examined and prioritized the concept of innovation almost before every institution, realized that it can only be implemented and spread under a holistic ecosystem, and It is natural that it has taken this task before anyone else. Exporting means to compete with the bests of the world. To overcome the bests of the world, on the other hand, means to make Türkiye’s top firms ready to compete, make them enter into the competition. Research & Development, Innovation, Design and Entrepreneurship are inseparable, and understanding these concepts, finding meaning in the public and sectoral conscious for them, and making an effort to having excess, but, not have a deficiency in the fields which we compete, all of them are taking an important place to the corporate structuring and action plans of TIM. Our Committee Activity Report to be published annually henceforth summarises our efforts and the obtained proceeding in this path we have chosen in order for serving our country.

I would like to express our gratitude for the unique support of our big family, on behalf of the Committee and our fellow workers.

“Always developing by finding a better, a more different alternative, becoming unique, remaining unrivalled in new ways and methods is the exact thing which we call ‘Innovation’.”

TIM INNOVATION COMMITTEE



İSMAİL GÜLLE
TIM CHAIRMAN



KUTLU KARAVELİOĞLU
DEPUTY CHAIRMAN OF TIM



AHMET ŞİŞMAN
INNOVATION COMMITTEE MEMBER



BİROL CELEP
INNOVATION COMMITTEE MEMBER



FEYYAZ ÜNAL
INNOVATION COMMITTEE MEMBER



HÜSEYİN MEMİŞOĞLU
INNOVATION COMMITTEE MEMBER



JAK ESKİNAZİ
INNOVATION COMMITTEE MEMBER



MELİSA TOKGÖZ MUTLU
INNOVATION COMMITTEE MEMBER



MUSTAFA ERTEKİN
INNOVATION COMMITTEE MEMBER



ORHAN SABUNCU
INNOVATION COMMITTEE MEMBER

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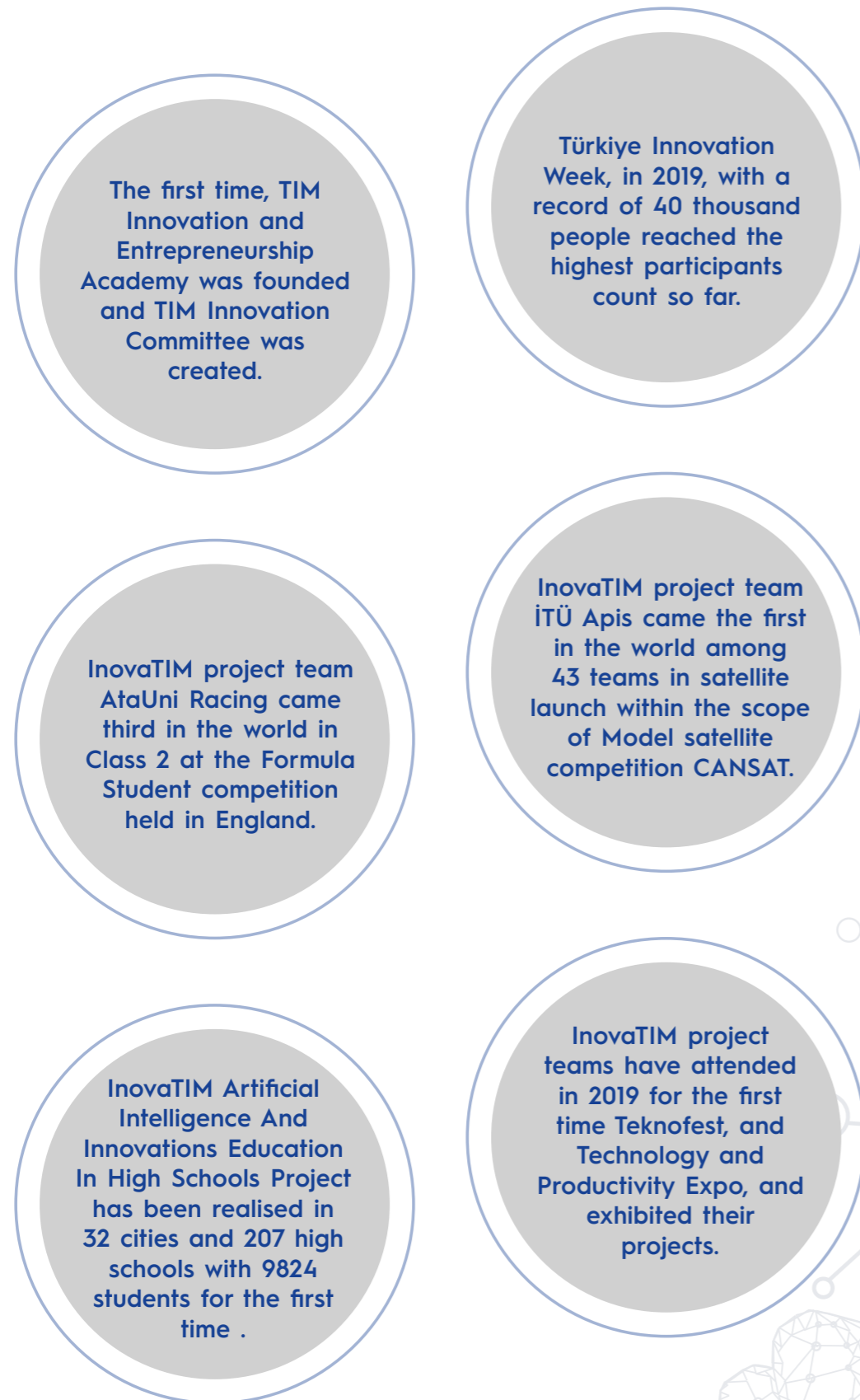
INOVATIM ARTIFICIAL INTELLIGENCE AND INNOVATIONS EDUCATION IN HIGH SCHOOLS PROJECT



To access the digital version of the Innovation Committee Activity Report could scan the **QR code**.

"TİM Innovation Activity Report involves October 2018 - December 2019 period."

INITIALS OF TIM ON INNOVATIONS



INITIALS OF TIM ON INNOVATIONS





TÜRKİYE INNOVATION WEEK

INNOVATION FOR
GREAT TÜRKİYE

!INNOVATION ANNUAL REPORT





I BELIEVE THIS EVENT
GATHERING INDUSTRIALISTS,
PROFESSIONALS,
ACADEMICIANS, RESEARCHERS
AND MEDIA MEMBERS HAVING
AN INTEREST IN THE FIELD OF
INNOVATION WOULD LIGHT THE
WAY OF THE FUTURE OF THE
COUNTRY.



RECEP TAYYİP ERDOĞAN
President

Türkiye Innovation Week organized by the date on 3-4 May 2019, brought together tens of thousands of people at the Istanbul Congress Center. The official opening ceremony of the greatest meeting of the innovation ecosystem was made by President Mr Recep Tayyip Erdoğan. International professionals distinctive in the world and in Türkiye, industrials, academicians and university students participated in conferences focused on innovation, experience fields, exhibitions and workshops, in the event.

Türkiye Innovation Week reached up to the highest number of participants until today with approximately 40 thousand including 20 thousand 800 on the first day.

WE NEED TO RAISE THE VALUE ADDED

President Mr Recep Tayyip Erdoğan made the opening of the week, and thanked to all those who contributed in the organisation of the event gathering all distinctive people in the innovative-

ness field in Türkiye and the world. Erdoğan said that he believed this event gathering industrialists, professionals, academicians, researchers and media members having an interest in the field of innovation would light the way of the future of the country.

President Mr Recep Tayyip Erdoğan indicating that obvious excitement of innovation been witnessed in every field, from secondary education the universities, and from the business world to culture and arts, continued; "You are at the forefront of our country's struggle for survival with the efforts you have put forward in both increasing and raising the quality of our exports and in other areas. I, therefore, express my gratitude to each of you. Today, Türkiye shows our flag with its products in 222 countries and regions around the world. For us, exports of goods and services are no longer enough alone. In order to achieve our 2023 goals, we need to increase the added value of our exports."

TÜRKİYE INNOVATION WEEK

INNOVATION FOR GREAT TÜRKİYE

(2012-2019 dönemi)
800
Speakers

500 Thousand
Visitors

1300
Participants



RUHSAR PEKCAN

Minister of Trade

“THE COUNTRIES WHICH GENERATE INNOVATION, ALSO HAVE THE CHANCE TO EXPORT THEIR OWN PRODUCTS WHICH ADDING WITH HIGH TECHNOLOGIES, AND ADDED-VALUE, AND MORE EXPENSIVE PRICE.”

IN ORDER TO REACH OUR GOAL “TÜRKİYE HAVING FOREIGN TRADE SURPLUS”, AND THE EXPORT RECORDS BECOME PERMANENT, WE CAN ONLY OBTAIN IF THE TECHNOLOGICAL INNOVATION AND TRANSFORMATION ARE INTEGRATED TO OUR EXPORTS AND OUR PRODUCTION.



İSMAİL GÜLLE

TİM Chairman

Ruhsar Pekcan, the Minister of Trade, stated that the new technologies had become the spine of the global economy. Pekcan said “The countries which generate innovation, also have the chance to export their own products which adding with high technologies, and added-value, and more expensive price. Therefore, by intellectual property export, they make their countries make extra profit. Today’s global profitable companies are future investors and exporters.”

“INNOVATIVE TRADE PLATFORM IS BEING CREATED”

Ruhsar Pekcan, the Minister of Trade, stated that they aimed to raise export of high technology commodity which has share of 3,5% in export of industrial commodities to 10% at first and then to 17% which is average of OECD. In e-commerce; Pekcan, pointing out that they established policies for activating young and women entrepreneurs, stated that they have been working on new-generation free zones and would turn those into technology frames.

“THE NECESSITIES OF THE TIME SHOULD BE DONE”

On the other hand, İsmail Gülle, the Chairman of

TİM, pointed out the fact that they have acted with the mission “Türkiye having foreign trade surplus” and underlined the importance of innovation, within this scope, he noted that they have handled the Innovation Week more deeply. Mr. Gülle stated that “Within the last 17 years, big moves were made towards organized industrial zones and specialized field in all around Türkiye with the leadership of Mr. President and with the incentives and investment supports that are continuously enriched. We have witnessed the inauguration of tens of thousands of factories. However, we must now do whatever is required by the age and we should not breach the trust in us. Because the 21st century is the age of creating solution not the production of goods.” Mr. Gülle said that; InnoVALEAGUE which is the first innovation development program in Türkiye, InoSuit which is a mentorship program that strengthens the cooperation between universities and industries, InovaTIM which is Türkiye’s youngest and innovative family and Türkiye’s biggest entrepreneurship family is TİM-TEB Global House which are the concrete examples of the importance TIM gives to innovation and entrepreneurship, will continue to their activities under the name of “TİM Innovation and Entrepreneurship Academy”.



Türkiye Innovation Week with the participation of about **40 thousand people**, including **20 thousand 800** on the first day has reached the highest number of participants to date.

THE BEST ONES ARE AT THE INNOVATION WEEK

Over 40 domestic and foreign professionals who specialized in innovation and technology based industries, shed light on the developments in the technology world by their presentations in Türkiye Innovation Week.



Prof. Dr. Temel Kotil
General Manager of Turkish Aerospace Industries Inc.



Dr. Umut Yıldız
Astrophysicist



Chris Barton
Shazam Co-Founder



Prof. Dr. Emre Alkin
Vice-Rector of Altınbaş University



Dr. Erdem Erkul
Vice General Director of Public Sector and Investments of Microsoft Türkiye



Toomas Hendrik Ilves
Former President of Estonia



Binnur Karaevli
The Protector Series Writer and Creative Producer



Funda Karayel
Sabah Newspaper, Günaydın Columnist



Dr. Gökçe Phillips
Projesium Co-Founder & CEO



Halit Mirahmetoğlu
Founder of TRC & Spaceagenda



Prof. Dr. Haluk Görgün
General Manager of ASELSAN



Prof. Dr. İsmail Demir
Presidency of Republic of Türkiye, President of Defence Industries



Canay Atalay
Human Works Co-Founder



Nima Elmi
Head of Government Affairs, Centre for the Fourth Industrial Revolution, World Economic Forum



Marcus East
National Geographic CTO



İlhan Bağören
Telenity CEO



Sarper Arslan
Senior Head of Corporate Services HUGO BOSS Türkiye



Omar Hatamleh
NASA CIO



Prof. Dr. Kerem Alkin
Academist in Economics



Selçuk Bayraktar
Chairman of The Board of Trustees of T3 Foundation



Okan Müderrisoğlu
Sabah Newspaper Columnist



Mine Aksoy
Chairman of The Executive Board of All Stars Music



Oğuzhan Öztürk
Asst. General Manager-Production and Technology



Refik Anadol
Media Artist / Director



Ali Taha Koç
Presidency of The Republic of Türkiye, Head of the Digital Transformation Office



Dr. Tolga Kurtoğlu
Turkish Scientist and CEO of Xerox PARC



Zafer Kabadayı
General Manager of Schindler Türkiye



Rudy de Waele
Futurist, Human Works CO-Founder



Kevin J Debrun
Former NASA Rocket Scientist



Ahmet Hamdi Atalay
General Manager of HAVELSAN



Sevilay Kurt
Technical Leader of IBM Türkiye



Cris Beswick
Strategic Innovation Advisor



Tansu Yeğen
Vice President of Uipath Europe



Osman Okyay
Vice President of Kale Group



Vahap Munyar
Hürriyet Newspaper Columnist



Murat İkinci
General Manager of STM



Güvenç Özel
Architect, Özel Office Founder



Rahman Altın
Music Director, Opera Singer



Engin Çağlar
World Innovation Forum Ambassador



Gökmen Eriş
Chief of Information Technologies and Management of Şişecam



Ümit Leblebici
TEB General Manager



Ömer Barbaros Yiş
Executive Vice President - Marketing



Döndü Ünal Haktar
Head of Corporate Project Manager of HUGO BOSS Tekstil Sanayi

INNOVATION AND CULTURE OUGHT TO SHARE THE SAME DESK



CRIS BESWICK

Writer, Strategic Innovation Advisor

"Culture is one of the biggest propulsive forces to transport innovation to at our institution. One of the good side Türkiye and İstanbul for me is getting the know your culture. The thing I want to speak of is why culture, strategy, and leadership should be on the same desk. The culture was a propulsive force to any institution for ten years ago. The 2008 economic crisis created an impulsive force to change all of our institutions. If we make the innovation practicable, embed our institution's structure then we would open to make the excellent things. The challenge here is that; there is a huge size of data and content in our hands. I want to push you thinking differently, because, you will carry your institution forward significantly when you would do this."

HOW WE CAN CREATE THE DIGITAL WORLD?



MARCUS EAST

National Geographic CTO

"There are so powerful companies in Silicon Valley. These companies have flexible technologies. Lots of innovations hail from Silicon Valley to the world. Flexibility is the most important thing in the fast-changing technology world. Also, many of these institutions have a culture of experimentation. They are rapidly testing things they've built. Another significant point is measurement. When we look at Apple, people focus on key performance indicators. These indicators are interaction with the customer, customer traffic, and price. Also, collaboration is another key to success. Collaboration between different teams is providing high performance."



GÜVENÇ ÖZEL

Architect, Özel Office Founder

ARCHITECTURE 4.0

"It is more correct to perceive architecture not as construction, but as places where we communicate and socialize. The concept we called Architecture 4.0 is a concept of about the existence of human and objects. Nowadays the most challenging truth which is forced our brain is movement. I think, one other significant factor is media. Because of media has visualized the information, contribution to architecture is huge. Technologically the most important ideas are realized with the support of sensor technologies."



KEVIN J DEBRUIN

Former NASA Rocket Scientist

WHAT HAPPENS IN SPACE?

"Earlier this year, we sent a device on Mars. We are evaluating the interior of Mars using this device. We are analyzing how much movements. This is an innovative device that NASA is currently receiving data. A different device is the cube sets. We sent two of them to Mars, and for the first time, the cube sets have been sent interplanetary. Why that so important find life other planets? In the universe, physics, geology, and chemistry are proven. But we didn't find yet biology. The spacecraft which we will send after four years, orbit Jupiter and we will receive data."



OMAR HATAMLEH

NASA CIO

ARTIFICIAL INTELLIGENCE IS FOR THE BENEFITS OF HUMANITY

"Artificial intelligence is not a new thing actually. So, why is it so popular now? When people are learning something they learn individually. When artificial intelligence robots are created, whenever one learns something, the others will learn. In turn, this is going to change everything. People will work more effectively. Consequently, we are generating technology and improving this rapidly. The new advancing technologies will be able to do work, done by millions of people. Existing models will be useless after 30 years. Therefore, we need new economic models."

WHAT SPEAKERS SAID ABOUT INNOVATION WEEK?



DR. UMUT YILDIZ

"Türkiye Innovation Week", was a wide participated and great event which is prepared with the giant organization. The enthusiasm of the young participants and the interesting presentations at the booths made us even more excited and increased our hope for the future. An excellent congress happened for two days, which everyone could benefit. New generation teens reach easily information which they wonder. Therefore, the time required for them to wonder about things, investigate and dream patiently shortens. In such a situation, it becomes very important to establish environments where young people can meet with people who have carried out such projects and discuss their own ideas. To embedding and traditionalizing innovational thinking and raising awareness for people in our country, holding these organizations every year will have very significant effects on behalf of the new generation teens.

"The Türkiye Innovation Week" was a fabulous event and incredibly well produced. I very much enjoyed my visit to Istanbul for this event. It was truly an event full of inspiration, innovation, and insight."



CHRIS BARTON



MARCUS EAST

"This was a very well organized event with an impressive array of decision-makers and policymakers in attendance and strong focus on Innovation".

Türkiye Innovation Week was one of my favourite conferences on our technological future, one that takes place in one of my favourite cities in the world, Istanbul. Like Istanbul, the conference straddles and crosses Europe and Asia, and a past more than 2500 years old combined with and incorporating a vision of the future: a magnificent sweep of history, visionary presentations of the future, all taking place overlooking the stunning panoramic vistas of the Bosphorus.



TOOMAS HENDRIK ILVES

WHAT INOVATIM STUDENTS SAID ABOUT INNOVATION WEEK?



CEREN SATIK

Istanbul University - Cerrahpaşa

"Türkiye Innovation Week" was a well-organized and efficient event. I took great pleasure to be there which presentations and workshops of experts in their field. Also, places, where guests spend their time, were very well-designed. I had so many inspirations which affect my forward-looking planning in my life."



ERHAN KURT

Isparta University of Applied Sciences

"Türkiye Innovation Week" was an event where my emotions cannot describe with words, and listened to the accumulation at first hand. In addition to attending this event as a part of the InovaTIMfamily, I dream of participating as a speaker to share my future success and experiences with people."



ENES YİĞİT

Ondokuz Mayıs University, Samsun

"As a person who fully integrated the innovation word in my life, "Türkiye Innovation Week" was an important event which I found myself. Throughout the event, I tested the different devices, met the different people. I made a significant contribution to my vision. It was an inspiring event, in an inspiring city."



ATAKAN ÇAĞATAY BEKDEMİR

Doğuş University

"Türkiye Innovation Week" was an excellent event which inspired me, opened my horizons, to come together with many competent people that allows me, from the beginning."



YAĞIZ ALP YILMAZ

Erciyes University, Kayseri

"Türkiye Innovation Week" is within the structure of TIM was wonderful this year like every year. The participation of companies from many sectors where innovation, technology and production are blended has been an important guide for us. By way of this event, we think innovatively on our projects. Thanks, TIM."



AYSU SARI

Istanbul Technical University

At "Türkiye Innovation Week" I had a chance to analyze many incredible projects which are developed and made in our country. I saw very different ideas, it was a wonderful opportunity arguing and learning these for me. I was very satisfied."

PLAQUE PRESENTATION TO THE STRATEGIC PARTNERS

Thank You Plaques Were Presented By President Mr Recep Tayyip Erdoğan For Strategic Partner Delegates Of Türkiye Innovation Week.



Fatih Kemal EBIÇLIOĞLU

President of Consumer Durables Group, Arçelik



Ümit LEBLEBİCİ

TEB General Manager



İLKER AYCI

Chairman of the Board of Directors and the Executive Committee, Turkish Airlines



Ahmet AKÇA

Chairman of the Executive Board, Turkcell

INNOVATIVE PANELS LIGHTENED THE FUTURE

There were many interesting sessions in which the relationship between innovation and economy is deeply examined by academics, economists, and industry leaders.



MULTIPLIER EFFECT IN TECHNOLOGICAL PROGRESS: DEFENSE INDUSTRY

Within the scope of Turkish Innovation Week "Need-based, Innovative Designs in the Defence Industry" panel session was held with the moderation of Prof. Dr. Kerem Alkin. Current situation of the defence industry was discussed with the light of the updated information during the session which was held with the participation of Prof. Dr. Temel Kotil General Manager of TUSAŞ, Prof. Dr. Haluk Görün General Manager of ASELSAN, Ahmet Hamdi Atalay Gen-

eral Manager of HAVELSAN, Murat İkinci General Manager of Savunma Teknolojileri Mühendislik ve Ticaret A.Ş. (STM), Osman Okyay, Vice Chairman of Board of Directors at Kale Group. Recent developments in the defence industry, in which Türkiye is also among the international actors, innovative contributions of the industry to the other industries and multiplier effect it creates in the national technology move were discussed during the session.

THE NEW INSTRUMENT OF COMPETITION IS "INNOVATION"



"New Route of Export: From Price Competition to Information Competition" panel moderated by Vahap Munyar Chief Editor of Hürriyet, participated with Dr Tolga Kurtoğlu Turkish scientist and CEO of Xerox PARC, Dr Erdem Erkul Vice General Manager of Public Sector&Investments of Microsoft, Döndü Ünal Haktanır Manager of Corporate Project Management of Hugo Boss, Zafer Kabadayı General Manager of Schindler Türkiye. The experts in their fields evaluated the steps to be taken in the export to reaching the target of "Türkiye with Foreign Trade Surplus", and mapped out the route from price competition to information competition.

INNOVATIVE EFFECTS OF BLOCKCHAIN IN THE FINANCE INDUSTRY

The concept of "Fintech Innovations", formed by the words finance and technology, entered our lives thanks to cryptocurrencies such as Bitcoin. In the session talking about blockchain technologies which is the base for Bitcoin, the panellists conveyed the technological developments in today's payment, trade and investment, credit and funding systems. Moderated by the Vice-Rector of Altınbaş University Prof. Dr Emre Alkin, Sevilay Kurt IBM Türkiye Technology Lead, World Innovation Forum Ambassador Engin Çağlar, Co-Founder and CEO of Projesium Dr Gökçe Phillips participated in the panel.



DR UMUT YILDIZ'S PANELS ATTRACTED ATTENTION



Turkish Astrophysicist Dr Umut Yıldız's panel as the question-answer was explained the specific issues like establishing colonies possibility on Mars with today's technology, shooting process of blackhole's photo, activities about space in Türkiye. It was the most interesting panel on the day. Although the number of visitors participating in the Innovation's Space Travel Panel was much more than the capacity of the hall, most of the participants followed standing out the panel which lasted for 1.5 hours, with intense interest. The session contributed to the promotion of InovaTİM.

5G WILL CHANGE THE LIFE



"From Digital Transformation to Production Transformation: New Horizons in the Industry" panel moderated by Okan Müderrisoğlu, Ankara Representative of Sabah Newspaper, participated with İlhan Bağören CEO of Telenity, Tansu Yeğen Vice President of UiPath Europe, Nima Elmi Public Relations Manager of World Economic Forum Industry 4.0 Center, Gökmen Eriş Manager of Şişecam IT Strategy and Governance. In the panel,

information was exchanged about the reflections of digital transformation to the industry. Experts of digital transformation answered the questions in people's mind and conveyed transformation moves in the industry. One of the prominent headlines was how the domestic and national 5G communication network project which is expected to enter our lives in 2020, will reflect on the industry.

BIG ATTENTION ON WORKSHOPS



Within the scope of "Türkiye Innovation Week" realized on 3-4 May; "Design Thinking" workshop in İstanbul Technical University on 29th April, "Digital Transformation" workshop on 29th April and "Recycling & Upcycling" workshop on 30th April in İstanbul University-Cerrahpaşa, "Robotic" workshop on 30th April in Microsoft Central Office, "Plantation in the Atmosphere"

workshop on 30th April in Türk-Alman Üniversitesi and "Drone Up" workshop on 2nd May in TIMInnovastage Hall realized. The total quota for the workshops was determined as 110 people, but the total number of participants in the workshops were 123. After the announcements made at universities, 3452 applications were received.



14 PROJECTS ARE EXHIBITED, 10 PROJECTS FROM INOVATİM, AND 4 PROJECTS FROM MAKER

- Model Satellite
- Rocket
- UAV(4)
- ROV
- R2D2
- Formula Car

- Adoptive Exterior Surface
- Dental SLA
- Laboratory Paint Machine
- Plantation on Space
- Turta
- Dronom

PANELS

There were many interesting sessions in which the relationship between innovation and economy is deeply examined by academics, economists, and industry leaders.

THE MOST REMARKABLE SPEAKERS DURING THE EVENT:

- Umut Yıldız
- Chris Barton
- Selçuk Bayraktar
- Refik Anadolu
- Toomas Hendrik Ilves

THE MOST ADMIRABLE SESSIONS IN THE EVENT:

- Building a digital country
- Multiplier Effect in Technological Advancement: Defense Industry
- Innovation Touches the Life
- Shazam: Smash in Sound Barriers
- From Smart Cities to Conscious Cities
- Innovation's Space Travel

PROJECTS AND EXHIBITS OF INOVATIM



■ At Türkiye Innovation Week, on the project exhibition area allocated for InovaTIM, 14 InovaTIM projects were exhibited.

■ "Türkiye Innovation Week" started with the "Innovation's Space Travel" panel at InovaSt-

age Hall. After then, ended with "Innovation's Cross-Continental Travel", "Powerful Future With Renewable Energy", "Innovation Travel on High Schools" and "DIY Culture with Technology".

"At Türkiye Innovation Week, on the project exhibition area allocated for InovaTIM, **14 InovaTIM projects** were exhibited."



STAR – 04.05.2019



Çalışmak ve çok üretmek geleneğimizdir

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INNOVALEAGUE

FIRST INNOVATION DEVELOPMENT PROGRAM of TÜRKİYE

!NNOVATION

ANNUAL REPORT



FIRST INNOVATION DEVELOPMENT PROGRAM OF TÜRKİYE

Turkey's first innovation development program InnoVALEAGUE chooses the Türkiye's innovation leaders. 1.216 companies from across the country applying, Türkiye has become one of the countries with the highest participation.



InnoVALEAGUE takes place in cooperation with the international management consultancy firm IMP3rove Academy. The firms which have applied through the website www.improve-innovation.eu compete at InnoVALEAGUE upon completing the Innovation evaluation questionnaire on five main categories of innovation (innovation strategy, innovation organisation and culture, innovation life-cycle management, innovation enabling factors and innovation results) which are based on IMP3rove methodology.

Innovation report of approximately 100 pages and worthing 350 Euros is being sent free of charge. All firms which have completed the IMP3rove questionnaire get the opportunity to see their position freely within the system of which 7.500 firms from 80 countries take place, via the benchmark report. InnoVALEAGUE champions receive their awards every year at the InnoVALEAGUE Award Ceremony which was organised as a part of 'Türkiye Innovation Week'.



1

- The firms complete their pre-registration via www.inovalig.com web site.

2

- **Innovation Evaluation Questionnaire** of **47 questions** is completed by the firms and the benchmark report of approximately 100 pages is received.

- The firms are being listed under **5 different innovation categories** by these reports.

- **Top 10 firms** out of each category get on the semi-finals.

3

- Upon the meetings held and **jury evaluations** made, **5 firms selected** from each 5 categories get on the finals.

- **Top 50 firms** which got on the semi-finals are being visited by and take place in the meetings with the TIM innovation consultants.

4

- **50 firms** in total from the categories of SME and Large Firm present their innovation management approaches and methodologies to the **grand jury**.

5

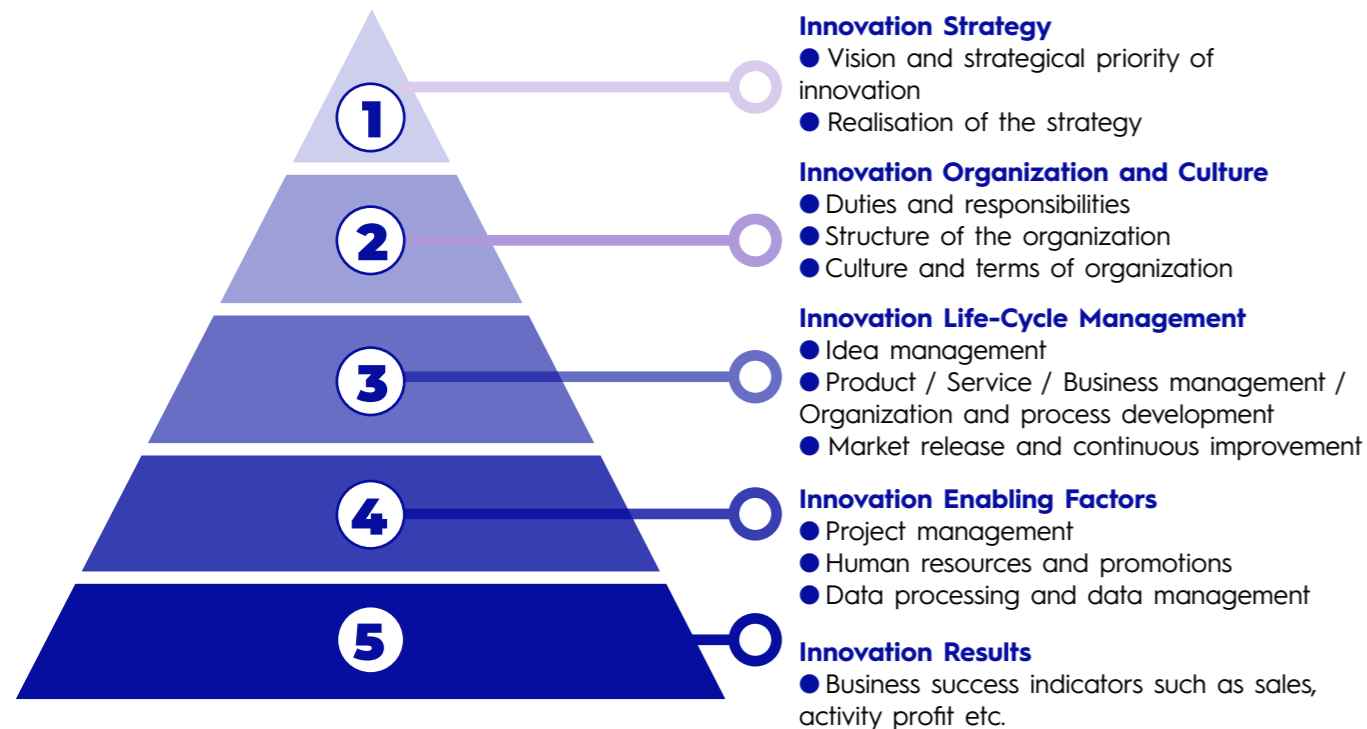
- Upon the grand jury evaluation, **the first 3 firms from 5 categories** are determined. First ranked firm for each category is announced as '**InnoVALEAGUE Champions**'.

WHY SHOULD FIRMS APPLY INNOVALEAGUE?

- Award for top 3 firms in 5 different categories, separately for SMEs and Large Firms, at Türkiye Innovation Week.
- Opportunity to receive the benchmark report worthing 350 Euros free of charge.
- Opportunity to take place on TIM publishings and all relevant social media platforms.
- Representation at the national and international events being held throughout the year.
- Representation at the innovation-focused abroad board and programs.
- Certificate for all the firms which have completed the benchmark report.

- Opportunity for the champion firms to set up a booth and advertise at Türkiye Innovation Week.
- Opportunity to follow the position both within the sector and worldwide through the years, and develop the innovation competency on an innovative platform.
- Opportunity to take place on the InnoVALEAGUE website along with the introductory information of the champions of 5 different categories.
- Opportunity to make comparisons between the firms in case of making separate applications for all the shareholding companies.

INNOVALEAGUE CATEGORIES



- As part of the Innovation Strategy category, evaluations are made under the topics innovation vision, projects, sustainability, commercialisation of the company ideas.
- As part of the Innovation Organization and Culture category, evaluations are made within the scope of cultural

preparation, non-corporate collaborations and consistency.

- As part of the innovation life-cycle management category, innovation process, success of the projects, feedback and idea management topics are covered.

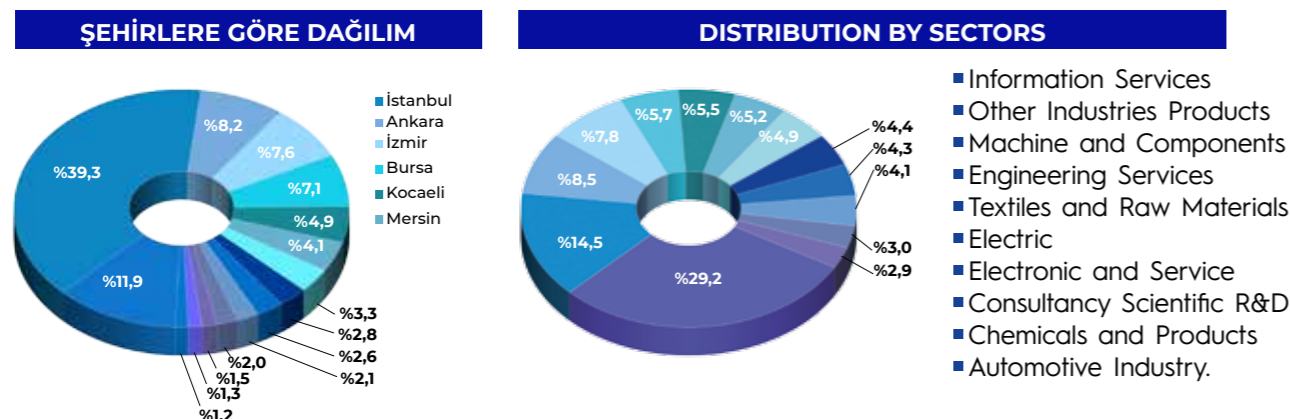
- As part of the innovation enabling factors category,

evaluations are made under the topics such as promotions and awards, patents, design management etc.

- As part of the Innovation Results category, results regarding revenue, cost reduce, and number of employees are being evaluated.

InnoVALEAGUE APPLICATIONS

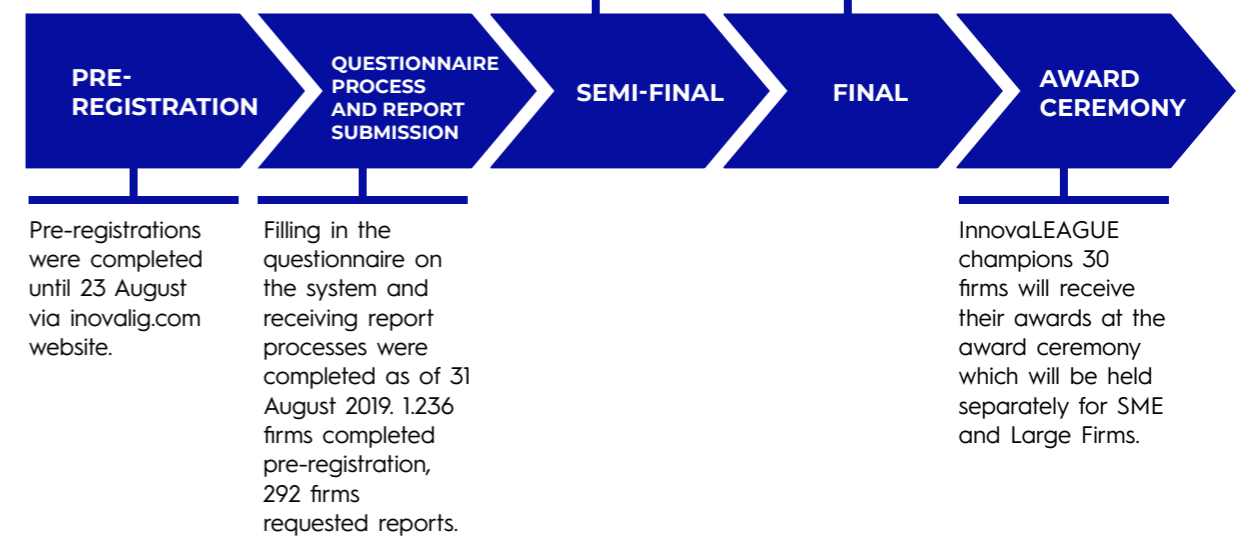
The number of company applications to InnoVALEAGUE is 1216, and Türkiye has become one of the countries where the participation is the highest in 2018.



InnoVALEAGUE 2019 PROCESS FLOW

Top 10 firms in 5 different categories got on the semi-finals and the finalists were determined after the firms visit with teleconference meeting. 51 Large Firms and 51 SMEs were selected for the semi-finals as of 2 October 2019. 23 firms were visited, and 79 firms were communicated via teleconference during the semi-finals. 26 Large Firms and 22 SMEs were selected as finalists on 8 November, by Project Team evaluation.

Champions as top 3 for each of 5 categories are being determined by the grand jury meeting. Champions were determined with the Grand Jury Meeting held on December 18, 2019 and the Grand Jury SME Meeting held on July 21, 2020.



The number of company applications to InnoVALEAGUE is 1216, and Türkiye has become one of the countries where the participation of most, in 2018. Istanbul took the largest share with 39.3% in the competition, in which companies from 60 cities participated.

InnoVALEAGUE CHAMPIONS EXPORT PERFORMANCE



INNOVALEAGUE APPLICATION NUMBERS

At InnoVALEAGUE being organised for 6 years since the first one in 2014, **5.132 applications** were made and **3.867 firms** competed. Applications increased significantly through the years and the number reached 1216 in 2018.

CONTRIBUTION OF 2014-2018 INNOVALEAGUE APPLICANT FIRMS TO EXPORT

Contribution of InnoVALEAGUE applicant firms to export in 2018 increased to **37,1 billion USD**.

CONTRIBUTION OF 2014-2018 INNOVALEAGUE CHAMPIONS TO EXPORT

Contribution of InnoVALEAGUE champions to export in 2018 was **28,7 billion USD**.

INNOVALEAGUE CHAMPIONS WERE REWARDED WITH A MAGNIFICENT CEREMONY

Champions of InnoVALEAGUE 2018 received their awards on 5 different categories, at 'InnoVALEAGUE 2018 Award Ceremony', honoured by President Mr. Recep Tayyip ERDOĞAN.



Champions of InnoVALEAGUE 2018 received their awards on 5 different categories, at 'InnoVALEAGUE 2018 Award Ceremony', honoured by President Mr. Recep Tayyip ERDOĞAN, which took part at 'Türkiye Innovation Week' organised at İstanbul Congress Center between 3-4 May 2019. InnoVALEAGUE Outstanding Success Certificates were sent to

all participant firms which have received their innovation reports by filling in the questionnaire. In order for providing the first time contestants of InnoVALEAGUE 2019 with variety and extensivity opportunity through the years, SMEs and Large segment firms were evaluated separately, and could contest under their own segments.

Further information about the InnoVALEAGUE Champions of 2018 and the previous years can be reached via <http://innovalig.com/Main/Champion> website or QR code.



INNOVALEAGUE CHAMPIONS

INNOVATION STRATEGY



1. Türkiye Petrol Rafinerileri A.Ş.



2. Kastamonu Entegre Ağaç San. ve Tic. A.Ş.



3. TUSAŞ - Türk Havacılık ve Uzay Sanayi A.Ş.

ORGANIZATION AND CULTURE



1. Wiser Wash Konfeksiyon Tekstil San. Dış Tic. A.Ş.



2. Beyçelik Gestamp Otomotiv Sanayi A.Ş.



3. Latro Kimya Dış Ticaret Ltd. Şti.

INNOVATION LIFE-CYCLE MANAGEMENT



1. Asis Otomasyon ve Akaryakıt Sistemleri A.Ş.



2. Bead Teknoloji Sanayi ve Ticaret A.Ş.



3. Chef Seasons Gıda San. ve Tic. Ltd. Şti.

INNOVATION ENABLING FACTORS



1. Havelsan Hava Elektronik San. ve Tic. A.Ş.



2. Dyo Boya Fabrikaları San. ve Tic. A.Ş.



3. Sedef Gemi İnşaatı A.Ş.

INNOVATION RESULTS



1. Etaş Eksantrik San. ve Tic. A.Ş.



2. Birleşik Ödeme Hizmetleri ve Elektronik Para A.Ş.



3. Okyanus Teknoloji Bilg. ve Yaz. San. Tic. Ltd. Şti.

INNOVATION STRATEGY CHAMPION



İBRAHİM YELMENOĞLU

Tüpraş General Manager

Turkish Exporters Assembly (TIM) conducts out important works in spreading the innovation climate with the “Türkiye Innovation Week” events, which are the greatest meetings in our countries’ innovation environment.

As Türkiye’s largest company, we are proud to announce our leadership in the innovation field.

Turkish Exporters Assembly (TIM) conducts out important works in spreading the innovation climate with the “Türkiye Innovation Week” events, which are the greatest meetings in our countries’ innovation environment. We are happy that our company’s efforts in this field are appreciated in this invaluable platform. Our approach to strategic innovation as Tüpraş, “Innovation Strategy” was crowned with the first prize in Türkiye’s first innovation development program, InnovaLEAGUE.

By constantly investing in innovation and technology within the scope of changing world trends, we put our signature underworks that make a difference in our sector with the innovative applications and technologies we develop. As a technology and innovation-focused company, we support in-house entrepreneurship and the entrepreneurship ecosystem with our future-oriented innovative perspective. We create value together with our internal and external stakeholders. We manage in-house entrepreneurship, digital transformation, R&D and open innovation strategies in a holistic manner; and trigger product, process and business model innovations. This way, our innovation strategy contributes to our sustainability by contributing to our company’s main strategy.

On this occasion, I would like to express my gratitude to the TIM team and all the Innovation Committee members for holding the biggest meeting of the innovation ecosystem on behalf of myself and the company.



There are numerous success stories on all 5 branches in the scope of InnovaLEAGUE. There are many success stories in the five different categories within the scope of InnovaLEAGUE. TÜPRAŞ, which became the champion in the Innovation Strategy in 2018, is the 1st largest industrial enterprise in the ISO 500 ranking for years and the 5th largest exporter in the first 1,000 companies in exports in TIM 2017. With an investment of 5.8 billion dollars in the last 11 years, it has become one of the refineries with the highest Nelson Complexity in the world.

INNOVATION ORGANIZATION AND CULTURE CHAMPION



FUAT GÖZAÇAN

Wiser Wash Chairman of the Board

InnovaLEAGUE is invaluable in terms of the registration of our successful project, to which we have shown great effort and dedication. We carry this championship on national and international platforms with great pride.

With our structure of designing the future, inspired by that past; we are aware that “the only thing that does not change is the change itself”. The most important feature that distinguishes us from other denim companies is that we have achieved this change thanks to the project investments we made in the fields of technology and innovation. I believe that sharing knowledge is the key to adapting to change. The simultaneous development of industry and technology is unfortunately insufficient in having a positive impact on the world. In this direction, my investments in “sustainable innovations” continue, where we will create positive impacts not only on technology but also on the ecosystem.

InnovaLEAGUE is invaluable in terms of the registration of our successful project, to which we have shown great effort and dedication. We carry this championship on national and international platforms with great pride. At the same time, it encourages us to continue increasing our investments in achieving innovations. With its international structure, strong participants and professional management; this valuable organization which meets the requirements of the modern age, is proof of the high level of success of our country in the field of technology and innovation.



Wiser Wash, which sells the products it produces with the Wiser Wash technique to the world’s leading clothing brand Pepe Jeans and succeeded in adding its own brand to the product labels designed with this denim, became the champion of the Innovation Organization and Culture in 2018. While denim washing can be done with ozone gas in production with the Wiser Wash technique, oxygen is released into the air as factory waste as a result of the process.

INNOVATION LIFE-CYCLE MANAGEMENT CHAMPION



YUSUF KAYA

ASIS Automation Inc. General Manager

Plans have been made for the creation, dissemination and implementation of an innovation culture in our company, all necessary steps have been taken, started to be implemented without compromise and results have been obtained. We get the reward of all these works by being:

- 23rd in the Innovation Life-Cycle Management category in InnovaLEAGUE 2016
- 8th in the Innovation Life-Cycle Management category in InnovaLEAGUE 2017

and consequently the 1st in the Innovation Life-Cycle Management category in 2018. It is a great honour for our company to be granted such an award by the TIM. With the success we have achieved thanks to our Innovation Management System that develops more each year, 3 different projects that are "new for the world" have been started.

However, we are aware that there are more steps to be taken in terms of innovation, and these are planned and implemented step by step.

The organization organized for the InnovaLEAGUE 2018 award ceremony; the promotions, high-level invitations, ceremony hall, program, etc. were very successful in all aspects.

I would like to thank all the team who contributed to this organization, especially to our Minister of Trade, Ms. Ruhsar Pekcan and Chairman of TIM, Mr. İsmail Güllü.



Asis Otomasyon, which is the Innovation Life-Cycle Management Champion, became the largest firm in the fuel distribution sector in Türkiye with 100% domestic capital, offering purely domestic solutions, is the holder of TÜR (Technological Products) certificate, with 43 trademark registration certificates, 16 patents, and domestic goods certificate.

INNOVATION RESULTS CHAMPION



İSMAİL TİMUÇİN

ESTAS Chairman of the Board

The primary cause of the InnovaLEAGUE to be essential is that it is the longest made, most comprehensive and content-rich innovation competition in Türkiye. We have a serious preparation process for InnovaLEAGUE throughout the year. For example, as ESTAS, we made the application preparations for 2020. All young fellows carry this process alongside their own current works. We prepare our documents for this competition for a year. In this way, our employees are also motivated and continue to run towards the target. Since there is no other competition like this, and it the only program in Türkiye, and we call it the Lig (league). The preparatory stages continue for a year. We are invited throughout the year and give various presentations. We have had degrees in different branches in the past, but winning the first place made us delighted. This has been the most precious award I have won in my professional life. The innovation results also mean the commercialization phase of this business, while working within innovation. What do you give to the Türkiye market, how do you cut imports, how much do you increase its exports, what palpable things you do? The work we do here needs to be commercialized and contribute to employment. Our government cares and supports these efforts. The presentation environment and the rewarding of the companies give us and our employees invaluable power.



Türkiye's leading software-intensive, defense industry firm of 36 years, became the champion of "Havelsan Innovation Resources", offering local and national solutions like ASGER (Augmented & Virtual Reality Surveillance System), OYMES (Forest Combat Simulator of Fire), AstarUS (Intelligence Analysis Software).

INNOVATION ENABLING FACTORS CHAMPION



PROF. DR. HACI ALİ MANTAR

HAVELSAN Vice Chairman of the Board

I think Türkiye Innovation Week organized by TIM is a significant event, crowning all of these processes, presenting the value of the innovative ideas.

On the basis of the ongoing sustainable success of Türkiye's technology giant HAVELSAN of 38 years, lies the solutions developed by its integrator identity and disruptive technologies. The innovative products and solutions developed in "Augmented Reality", "Artificial Intelligence", "Cyber Security", "Autonomous Systems" and "New Generation Communication" technologies that HAVELSAN focuses on; are used safely by all military (especially by the Turkish Armed Forces), public and private sector organizations in the whole world. Innovation studies in HAVELSAN play an important role in this success.

HAVELSAN evaluates innovative ideas and suggestions inside and outside the company, establishes collaborations to realize these ideas, aims to be a pioneer in global competition with innovation and to keep customer and employee satisfaction at high levels. At Türkiye's first open innovation center in the field of defense: HAVELSAN Yıldız, idea competitions, crowdsourcing projects, incubation and acceleration programs are organized for entrepreneurs and HAVELSAN employees.

The success achieved in the Innovation Resources category at InnovaLEAGUE, organized by TIM in 2019 with the support of the Ministry of Commerce and determining the successful companies of 2018, clearly displays the innovation competence of HAVELSAN.

Everything starts with an idea but doesn't end with one. In order for the idea you put forward to turn into a product or a solution, it needs to go through very serious development processes and perhaps subjected to many trial and error phases until it reaches the most mature point. I think Türkiye Innovation Week organized by TIM is a significant event, crowning all of these processes, presenting the value of the innovative ideas. As a technology and innovation volunteer, I would like to thank everyone who contributed.



The champion in the Innovation Results category, Estas Eksantrik Sanayi, has allocated 6.5 million TL to R&D and made a total of 466 R&D projects from 2011 to 2018. Having 13 patents and 8 utility model registrations, the company manufactures for the world's largest automotive companies such as Renault, Ford, Fiat and exports its products to 34 countries.



INOSUIT INNOVATION FOCUSED MENTORSHIP PROGRAM

!NNOVATION ANNUAL REPORT





Within the scope of the “InoSUIT-Innovation Focused Mentorship Program”, which is based on university-industry cooperation, it is aimed to increase innovation management competence in companies that are members of Exporters’ Associations

INOSUIT PROGRAM PROCESSES

- Making announcements to institutions and related institutions, organizing introductory meetings (determining invited companies, sending information mail, date and venue organization)
- Receiving new term mentor applications, to be sent to the Academic Coordinators together with the new term company applications and to receive their evaluations)
- Getting together with the Academic Coordinators at the meetings, completing the match-up regarding the firm and mentor applications evaluated based on competence, convenience and geographic proximity
- Contacting the firms and mentors for informing them about the match-up results and taking approvals, determination of Information Sharing and Preliminary Meeting date, notification regarding the meeting and confirmation for the attendance
- Sending notification e-mail for the firms and mentors that could not be matched-up.
- Informing the universities of the mentors who could be matched-up, by formal letters
- Revision of the contract, notification of General Secretariat of Exporters Associations regarding the firm and mentor match-up results
- Meetings to be held in order for the determination of the associations personnel and

university representatives

- Preparing and sending the assignment letters of the mentors to the universities
- Determination of detailed schedule regarding Information Sharing and Preliminary Meetings and Quarterly Information and Experience Sharing Meetings by the Academic Coordinators, sharing the detailed schedule with the attendants, photo taking at the end of the meeting, making Twitter and LinkedIn posts, the presentations made at the meeting to be sent to the attendants and to be loaded on the www.inosuit.com portal
- Sending IMP3rove Questionnaire Notification e-mail to firms and mentor
- Following the firm contract processes in coordination with the Associations, providing that the signature processes to be finalised before the beginning of the program,
- Following the support payments of 25% provided for the firms
- Organisation of experience sharing meetings on the third, sixth, and ninth months, at which the mentors from the relevant universities who serve within the scope of the project and the firms get together and share information and experience
- Taking place in all necessary coordination processes between the mentor and the firm regarding the InoSUIT Program

WORKSHOPS AND MEETINGS HELD AS PART OF THE PROGRAM

REGARDING THE 5. TERM - 2018 JULY TERM

- I. Quarter Information and Experience Sharing Meeting was held on 12 October 2018 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- II. Quarter Information and Experience Sharing Meeting was held on 18 January 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- III. Quarter Information and Experience Sharing Meeting was held on 5 April 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.

REGARDING THE 6. TERM - 2018 OCTOBER TERM

- Information Sharing and Preliminary Meeting was held on 14 September 2018 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- I. Quarter Information and Experience Sharing Meeting was held on 18 January 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- II. Quarter Information and Experience Sharing Meeting was held on 5 April 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- III. Quarter Information and Experience Sharing Meeting was held on 5 July 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.

REGARDING THE 7. TERM - 2019 APRIL TERM

- Information Sharing and Preliminary Meeting

was held on 8 March 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.

- I. Quarter Information and Experience Sharing Meeting was held on 19 July 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.
- II. Quarter Information and Experience Sharing Meeting was held on 11 October 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.

REGARDING THE 8. TERM - 2019 OCTOBER TERM

- Information Sharing and Preliminary Meeting was held on 13 September 2019 at our Assembly’s Şehit Ömer Halisdemir Conference Hall.



II. MENTOR WORKSHOP

InoSuit Program II. Mentor Workshop, at which we have discussed the topics including the road maps of our mentors, implementation experiences, development opportunities for the tools, areas open for development and improvement, gathering all our mentors and experiences gained through their mentorship processes together, was held on 15 February 2019 at our Assembly. First of all, the improvements that may be done to the current program were discussed all day long at the workshop that hosted our mentors who took place actively in our program for the last two years, then, discussed some additional operations that can be made.



TEKNOFEST



Information about the InoSuit Program was shared with the guests visiting our TIM tent for the entire week at TEKNOFEST held at Atatürk Airport between 17-22 September 2019. Also, at the InoSuit Career corner prepared under the tent, InoSuit firms got together with the innovative students, shared information about the internship opportunities provided for the university students and collected their internship applications. Attending InoSuit firms were namely PeakUp, Tulipack, Hidra Teknik, Yilmaden Holding and KRCPack.



INOSUIT CERTIFICATE CEREMONY

In the hall where the Corporate Innovation Experiences Panel and InoSuit Program Certificate Ceremony took place, the concrete outputs of 17 companies included in the InoSuit Program were also displayed as a poster exhibition. Nearly 300 spectators took part in the said hall. The event started with the "Corporate Innovation Management Experiences" panel. In the panel moderated by InoSuit Program Academic Coordinators Dr. Merih Pasin and Dr. Mehmet Aydın; CADEM Executive Board Member Mr. Samih Yedievli, Teyvaş A.Ş. General Manager Mr. Tolga Aykın, PeakUp Information Consulting and Engineering CEO Mr. Kadir Can Toprakçı, Emta Kablo Deputy General Manager Mr. Ümit Galip Uncu, Dr. Muhsin Fuat Bayık from İstanbul Medipol University shared their experiences as panellists. Panellist company representatives and InoSuit program mentor Dr. Muhsin Fuat Bayık shared his experiences and observations during the implementation of the InoSuit Program, and shared the problems they faced during the program and how they overcame these problems. At the InoSuit Program Certificate Ceremony held for the second time in 2019, the com-

panies and mentors who started the program in November 2017, January 2018 and April 2018 and signed successful works for 11 months received their certificates from TIM Innovation Committee President Mr Kutlu Karavelioğlu, TIM Innovation Committee Members Mr Orhan Sabuncu and Mr Birol Celep. A total of 38 companies and 35 mentors were deserved taking the certificate.



İNOSUIT PROGRAM PROVINCIAL INFORMATION MEETINGS



- 8 February 2019 at İstanbul Şehit Ömer Halisdemir Conference Hall,
- 13 February 2019 at Adana Chamber of Industry,
- 18 February 2019 at Aegean Exporters' Association General Secretariat and synchronously Central Anatolian Exporters' Association General Secretariat,
- 22 February 2019 at Gaziantep Southeastern Anatolia Exporters' Association General Secretariat,
- 22 May 2019 at Ankara Başkent Organised Industrial Zone,
- 23 July 2019 at İstanbul Şehit Ömer Halisdemir Conference Hall,

- 24 July 2019 at Konya Organised Industrial Zone,
 - 25 July 2019 at Trabzon Eastern Black Sea Exporters' Association General Secretariat,
 - 30 July 2019 at Manisa Organised Industrial Zone,
 - 8 August 2019 at Kocaeli Çayırova TOSB - Automotive Supply Industry Expertise Organised Industrial Zone,
 - 5 October 2019 at Kocaeli GOSB - Gebze Organised Industrial Zone Technopark
- 'Innovation, but How? Information and Experience Sharing' meetings were held on. Firms planning to apply for the following terms have been informed.



#CALLFORINNOVATION CALL PUBLISHED BY OECD WAS APPLIED BY İNOSUIT PROGRAM

Innovative practices realised being led by the public sector were aimed to be awarded by #Call-forInnovations at the Edge of Government call which was organised for the 4th time together with OECD Observatory of Public Sector Innovation (OPSI) and UAE Mohammed Bin Rashid Center for Government Innovation (MBRCGI). The call covers practices of the private sector organisations developed by the cooperation within the public sector, with the objective of increasing the life standards of the government authorities, NGOs and citizens, or improvements regarding the government.

Projects within the scope of application can have the opportunity of global visibility, local and global support and being role model for the other project executors. Applications should be made online and selected innovative practices are planned to be presented at the event that will take place in Dubai. In addition, the selected innovative projects will be on OECD publications.

İNOSUIT PROGRAM PRESENTATIONS ON THE BOARD OF DIRECTORS OF THE EXPORTERS' ASSOCIATION

- 24 July 2019 at İstanbul Leather and Leather Products Exporters' Association
- 18 August 2019 at İstanbul Mineral Exporters' Association
- 22 August 2019 at İstanbul Fishery Products Exporters' Association
- 27 August 2019 at Machinery Exporters' Association

- 28 August 2019 at Service Exporters' Association
 - 29 August at Steel Exporters' Association
 - 10 September 2019 at İstanbul Ferrous And Non-Ferrous Metal's Exporters' Association
- InoSuit Program was presented to the Board members by notification presentations made at the Board of Directors meeting held on.



TIM-TEB START UP HOUSE MOST COMMON ENTREPRENEURSHIP FAMILY OF TÜRKİYE

!INNOVATION ANNUAL REPORT



TİM-TEB START UP HOUSES CORROBORATE ENTREPRENEURSHIP ECOSYSTEM



With its genuine programs on the incubation, acceleration and growth phases which provides sustainability and rapid growth to the technology enterprises and technology companies, TIM-TEB Start Up Houses direct the ecosystem. Until today, 935 technology-focused entrepreneurs have supported, and approximately 5000 students have attended these programs.

TİM-TEB Start Up Houses, bring the entrepreneurs together with both the public and private sector investing groups in the widest sense, as a result of its large capacity in the ecosystem and strong relations with the parties. As a result of these studies, from the beginning of foundation, our entrepreneurs succeeded to be granted with investment worthing 131 million TL from the public funds and 209 million TL from the private investment authorities and overall 340 million TL in total. In 2019, our firms exports figures reached 50 million dollars. Enterprises have been taken place in TIM-TEB Start Up House programs provide employment over 7.200 in number today.

221 firms were graduated from TIM-TEB Start Up House in 2019 in 10 cities. This year, including the academic undergraduate programs, 1.133 students were provided with pre-incubation services. Within the scope of the trainings comprise firms operating in general entrepreneurship and value-added technological product exportation areas, over 2.000 participants have been reached.

Start Up Houses, operating in 10 cities, have carried out hundreds of joint projects with over 200 institutions so far. **935 technology-oriented entrepreneurs have been supported. Nearly 5000 students** have attended these programs as well. While our entrepreneurs managed to receive **340 million TL** of state support and investment, They realized \$ 50 million of exports in 2019.

Türkiye's Most Comprehensive and Widespread Entrepreneurship Programs

1) Wake Up Program

University students find technological business ideas with Design Thinking Methods in the Wake-Up program.

2) Let's Up Program

University students step into entrepreneurship by transforming business ideas into business models in the Let's Up program.

3) Step Up Program

Entrepreneur candidates with business ideas are preparing for the support of TÜBİTAK (The Scientific And Technological Research Council Of Türkiye)1512 BIGG.

4) Start Up Program

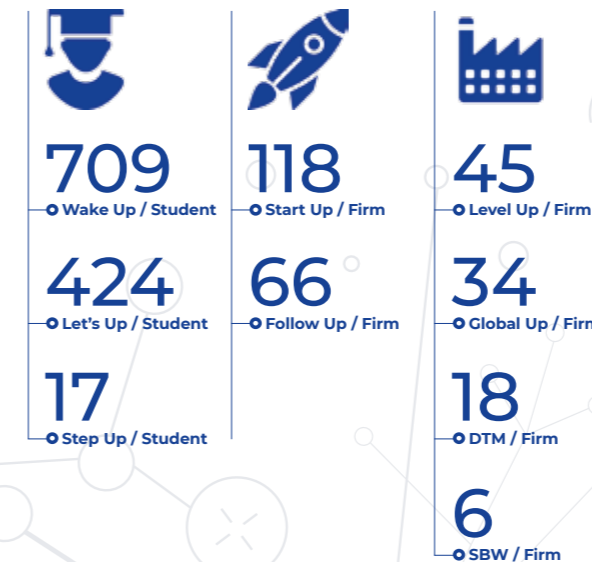
Entrepreneurs turn into permanent and powerful technology companies with the Start-Up program.

5) Level Up Program

Growth strategies of companies developing technologies that can change the world are formed together in the Level Up Program, and their rapid growth is supported.

6) Global Up Program

Technology companies that want to open their technology to the world are supported by the Global Up program.



One of the most significant specialities of the capacity TIM-TEB Start Up Houses for the ecosystem is that these activities have been carried not only in İstanbul but in Anatolian cities as well. Additionally, TIM-TEB Start Up Houses collect applications for entrepreneurship and relevant support at many spots in Anatolia with its widespread structure. Another purpose of TIM-TEB Start Up Houses is to support the organizations practice for the development of the entrepreneurship ecosystem in their cities and empower that city's capacity in that area. TIM-TEB Start Up Houses organized events together with around 200 institutions in the practicing cities.

WITHIN THE SCOPE OF TÜBİTAK BIGG PROGRAM, **3466 APPLICATIONS FROM 78 CITIES** HAVE BEEN RECEIVED SO FAR. **80 ENTREPRENEURS FROM 16 CITIES** WERE GRANTED WITH ENTREPRENEURSHIP DONATION SUPPORT WORTH 13 MILLION TL.



S2C events had organized at TIM TEB Start Up Houses in order to enable corporate companies to purchase their products/ services or to develop cooperation by taking advantage of the reliable and dynamic structures of the enterprises.



AWARD CEREMONY FOR TÜRKİYE'S ENTREPRENEURS

Entrepreneurs and over 200 distinguished members of Türkiye's entrepreneurial ecosystem joined the night at the Çırağan Palace under the auspices of the Republic of Türkiye Ministry of Trade on 11th October 2018. Türkiye's most successful 10 entrepreneurs in the night were taken their awards from Commerce Minister Ruhsar Pekcan, TIM Chairman Ismail Güle and TEB General Manager Ümit Leblebici. Also, in the field of social entrepreneurship with "Favour Necklaces", Ayşe Arman and Türkiye Game Developers Association President Ali Erkin took Inspiring Entrepreneurs Award, and Istanbul Technical University and Middle East Technical University received the Special Award for Adding Value to the Ecosystem.

ENTREPRENEURS WINNING AWARD



1. Fastest Growing Enterprise: Delphonic: It developed artificial intelligence and cloud-based software solutions for rail, wind turbine, marine, aviation, oil and industrial production processes. It made its first export to Swiss Railways and

received its first investment on the way to go global with a valuation of \$ 10 million.



2. The Most Exporting Enterprise: Rem People: It utilizes the most innovative technologies in all stages of collecting data from the field and points of sale (POS), analyzing the collected data and presenting these data through reporting interfaces specially designed for the needs of the companies. It continues to grow in the international market by exporting to more than 12 countries.



3. The Enterprise That Exports To The Most Countries: Miops: MIOPS is a Turkish R&D brand that aims to facilitate the lives of users in the photography and video industry. The enterprise, which made its name known worldwide with its first projects MIOPS Smart in 2014, collected the required amount of support with this project, and

Türkiye's most successful 10 entrepreneurs in the night were taken their awards from **Commerce Minister Ruhsar Pekcan, TIM Chairman Ismail Güle** and **TEB General Manager Ümit Leblebici**.

for the second projects MIOPS Mobile, which was included in Kickstarter in 2016, was funded in the two days, 4 times the required funding target.



4. The Enterprise Which Takes The Most Investment: Segmentify: Segmentify, the e-commerce personalization platform that allows retailers to offer every online visitor a unique shopping experience, was named one of the Top 25 machine learning entrepreneurs by Forbes Magazine, when it is being continued to branch at home and abroad.



5. Most Motivating Success Story: Dermis Pharma: Dermis Pharma, which provides fast and effective treatment of chronic open wounds and develops a "Dermalix" dressing consisting of natural components of the skin; signed a lifetime sales agreement with Abdi İbrahim İlaç.



6. Our Peer To Peer Enterprise: Indisera: Indisera, an SEO and content marketing platform designed for agencies and small and medium-sized companies; It aims to strengthen its optimizations on search engines with artificial intelligence. In this direction; While conducting analysis to find keywords that create competitive opportunities for companies; It expands keyword options that help companies increase search rates.



7. Rise Like A Phoenix From The Ashes: Scotty: Scotty, which aims to solve the traffic problem of Istanbul with motorcycle drivers and offer a fast transportation option; It also entered the food ordering industry. The company received an investment of 75.000 US dollars before the seed investment and 500.000 US dollars in the seed investment tour.



8. First Love: Gastroclub: Gastroclub is an enterprise which has kept Türkiye's most exclusive restaurants in its network system, and in this direction provides discounts to member businesses; In 5 years, it provided discounts of up to 12 million TL to its 30.000 members at 700 restaurants.



9. The Most Environmentally Sensitive Enterprise: Reengen: Including countries like Türkiye, the United Arab Emirates, India, Spain used the 360 Energy IoT platform, digital power management of Reengen more than 3.000 facilities.



10. The Most Successful Female Entrepreneur: Artge: The company, face-Pattern-Image Recognition, advanced image and signal processing issues such as 100% domestic solution with "FaceCapt face recognition system", has signed a large volume of work with leading companies in the defence industry and banking sector in Türkiye.



TİM-TEB START UP HOUSE: DEMODAY EVENT

To introduce the important investors and stakeholders of the entrepreneurship ecosystem to our entrepreneurs, and ensure that they receive investments, TİM-TEB Start Up House Demo Day Event was held on April 9, 2019 at Kolektif

House with the participation of 20 entrepreneurs selected from TİM-TEB Start Up House, TİM Deputy Chairman Mr. Kutlu Karavelioğlu, individual and institutional investors in the TEB network and important names of the ecosystem.



GAZİANTEPE TİM-TEB START UP HOUSE: DEMO DAY EVENT

Our entrepreneurs had the opportunity to meet with TİM Chairman Mr. İsmail Gölle and TEB SME Banking Strategic Planning and Marketing Group

Director Mr. Ayhan Albeyoğlu and presented their business ideas at the Demoday Event held on February 11, 2019 in Gaziantepe TİM-TEB Start Up House.



ERZURUM TİM-TEB START UP HOUSE: DEMO DAY EVENT

On March 19, 2019, TİM Chairman Mr. İsmail Gölle and TEB SME Banking Strategic Planning and Marketing Group Director Mr. Ayhan Albeyoğlu visited Erzurum TİM-TEB Start Up House established in ATA Teknokent, and ATA

TTO. Entrepreneurs who received support from Erzurum TİM-TEB Start Up House had the opportunity to introduce their initiatives to the TİM Chairman Gölle and the accompanying delegation.



Today, TIM-TEB Start Up House continues its **activities regarding developing and strengthening the innovative**, high value added and export potential having entrepreneurs and entrepreneur businesses **in the cities it operates**, with the most widespread and the most comprehensive programs.

IZMIR TIM-TEB START UP HOUSE

Wake Up, Let's Up, Start Up and Follow Up programs were held within the scope of activities in 2019. 55 students from 2 different groups attended Wake Up program, 25 students attended Let's Up program, 20 entrepreneurs were given mentorship support within the scopes of the programs, as 2 groups for Start Up, 1 group for Level Up, and 1 group for Global Up programs. Each enterprise in the groups took part in 1 jury interview and 5 one-to-one interviews. Each 10 graduate entrepreneurs of Follow Up program have been provided by 3 one-to-one consultancy activities and actual supports. Also, 1 of the entrepreneurs directed to TÜBİTAK within the scope of Step Up Program during the 2. Call term in 2018 was provided with the right to be supported, and completed the establishment of the corporation in 2019. Implemented by 2 different student groups in İzmir Demokrasi University, Wake Up Program held 13 business idea development practices with 55 university students. Let's Up Program was held with coordination of İKÇÜ Career Center, with 12 business idea practices came up during the practices by the participation of 25 university students in İzmir Katip Çelebi University. 190 persons participated in the trainings under 5 different topics during the training programs open for general admission.

ISTANBUL TIM-TEB START UP HOUSE

19 firms consisting of 3 different groups were served within the scope of Start Up program in 2019. 1 collective training, jury meeting were held and is provided 5 days of consultancy services with each group. 12 firms consisting of 2 different groups were served within the scope of Level Up program. 1 collective training and 5 interviews were held with each group. 3 interviews with 5 firms were held within the scope of Follow Up program. Also, as TIM-TEB Start Up House, 2 trainings were held on İstanbul Teknopark. Today, TIM-TEB Start Up House continue its activities regarding developing and strengthening the innovative, high value added and export potential having entrepreneurs and entrepreneur businesses in the cities it operates, with the most widespread and the most comprehensive programs. Many activities took place in İstanbul TIM-TEB Start Up House within the scope of advertising, training, cooperation businesses in 2019. With this context, together with L'Oréal, Opet, Yıldız Holding and Migros, 4 Techno Days, 1 Demo Day

with attendance of 22 investing and 23 corporate firms were held. TIM-TEB Start Up House advertising and 3 entrepreneur product/service presentation were made to high level managers of CRDB Bank of Tanzania. Within the scope of TIM-TEB Start Up House activities, 30 students from İstanbul Kültür University were hosted at Global Entrepreneurship Week. 5 entrepreneurs out of the TIM-TEB Start Up House entrepreneurs taking part at pre-incubation program presented their products at the tables during Teknofest events this year. 2019 2. Term Start Ups had 64 interviews with 13 mentors, within the scope of Speed Mentoring activity. 23 women founders attended TIM Woman Council and 5 entrepreneurs made presentations. 100 B2B interviews with 24 entrepreneurs were held by approximately 50 foreign capitalized firms at the event organized by Business France. Lastly, 4-days Expression Design Training designed by Arkin Çelik had observable positive impacts on the sales and persuasion activities of the entrepreneurs.



BURSA TIM-TEB START UP HOUSE

10 one-to-one consultancy interviews and 1 jury meeting with 12 firms within the scope of Start Up program in Bursa TIM-TEB Start Up House in 2019, was held. 6 one-to-one consultancy interviews and 6 collective trainings with 9 firms within the scope of Global Up program. 6 one-to-one consultancy interviews with 9 firms within the scope of Follow Up program. 9 day practice-oriented training and activities with 3 different groups within the scope of Wake Up program with the

participation of 69 students took place. 6-day training and activities with the participation of 18 students were held within the scope of Let's Up program, where 7 different entrepreneurship trainings were presented for the relevant audience in the city where 158 participants were met. Also, in cooperation with 7 institutions, 45 activities were held, 452 participants were reached and activities for increasing the popularity around the city and the relevant areas were held.



KONYA TIM-TEB START UP HOUSE

At Konya TIM-TEB Start Up House in 2019; In two terms with 10 firms, 2 jury and 5 one-to-one consultancy interviews each within the scope of Start Up program, 2 acquaintance meeting and 10 one-to-one consultancy interviews within the scope of Level Up program, 3 consultancy interviews with 4 firms for the Follow Up program, 5-day training and consulting interview were conducted within the scope of the Global Up program. During the year, 3-day practice oriented training and activities within the scope of Wake Up program with the participation of 60 stu-

dents in 3 groups were held. 6 day training with 13 business idea owner student and their teams within the scope of Let's Up program were held. Within the scope of entrepreneurship trainings with the participation of 102 people., trainings for exporter firms and 4 different trainings within the scope of entrepreneurship trainings were held. Also, by 13 advertising and cooperation focused interviews and 4 event participations, 303 participants were reached, activities for increasing the popularity around the city and the relevant areas were held.

EDİRNE TIM-TEB START UP HOUSE

In two terms with 10 firms, 2 jury and 5 one-to-one consultancy interviews each within the scope of Start Up program, 3 one-to-one consultancy interviews with 9 firms within the scope of Follow Up program, 1 training and 1 one-to-one consultancy interview with 3 firms within the scope of Strategic Enlargement Workshop were held in Edirne TIM-TEB Start Up House in 2019. 3 day practice-oriented training and activities with 2 different groups with the participation of 47 students within the scope of Wake Up program were held. 30 students were accepted to the 6 day trainings of Let's Up 'My New Business Enterprise' pro-

gram held in cooperation with Trakya Development Agency. 6-day training and activities for 2 different groups within the scope of Pre Step Up with the participation of 20 students were completed, 1 of the 4 entrepreneurs had managed to get to TÜBİTAK 2nd phase in 2018 was provided with the right to be supported. 8 entrepreneurship trainings with 160 participants and 3 trainings for the exporter firms with 62 participants were presented for the relevant audience in the city. Through participation to 16 advertising and cooperation focused interviews and 5 activities, nearly 800 participants were reached.



GAZİANTEP TIM-TEB START UP HOUSE

In two terms with 10 firms of 2 different groups, 5 one-to-one consultancy interviews and 1 jury meeting for each group within the scope of Start Up program, for 7 firms of 2 groups, 5 one-to-one consultancy interviews and 1 collective training within the scope of Level Up program, 3 one-to-one consultancy interviews with 3 firms within the scope of Follow Up program were held in Gaziantep TIM-TEB Start Up House in 2019. While 47 students develop business ideas with 2 Wake Up programs, 6 day training and

practices were completed with the participation of 16 students within the scope of 1 Let's Up program. 207 participants were reached by 5 different entrepreneurship trainings, and 60 firms attended 2 trainings for the exporter firms. Also, 4 advertising and cooperation focused interviews, 2 events, 2 Foreign Trade Workshops, 1 Demoday event were held and 198 participants were reached, activities for increasing the popularity around the city and the relevant area were held.

TRABZON TIM-TEB START UP HOUSE

In two terms with 2 jury meetings and 5 one-to-one consultancy interviews with 11 firms within the scope of Start Up program, 3 one-to-one consultancy interviews with 5 firms within the scope of Follow Up program, 3 one-to-one consultancy interviews and 3 collective trainings with 6 technology firms within the scope of Global Up program were held in Trabzon TIM-TEB Start Up House in 2019. With the participation of 138 students in 2 terms, trainings were held within the scope of Applied Entrepreneurship in Universities Course Program in Let's Up Undergrad-

uate Program. Within 2 different field students, 2-day practice oriented training and activities were held in Karadeniz Technical University Engineering Faculty with the participation of 200 students within the scope of Wake Up program. 1 entrepreneurship training and 2 trainings for the exporter firms were presented for the relevant audience in the city. Also, by more than 12 advertising and cooperation focused interviews, more than 440 participants were reached, activities for increasing the popularity around the city and the relevant areas were held.



MERSIN TIM-TEB START UP HOUSE

In two terms with 12 firms, 2 jury meetings, 1 collective training, and 5 one-to-one consultancy interviews each within the scope of Start Up program, with 10 firms, 5 for each 1. and 2. terms, 5 one-to-one consultancy interviews, 2 collective trainings within the scope of Level Up program, with 8 previous term entrepreneur firms, 4 for each 1. and 2. terms, 3 one-to-one consultancy interviews within the scope of Follow Up program were held in Mersin TIM-TEB Start Up House in 2019. 3-day practice oriented training with the

participation of 38 students on the 1. and 2. terms within the scope of Wake Up program, 5 different entrepreneurship trainings and 4 different trainings for exporter firms were held, and 253 participants were reached. Also, meetings in which various advertising and presentation opportunities were provided for the entrepreneurs, and some necessary networks were established. 23 activities were held in coordination with 23 institutions, and approximately 255 participants were reached.

DENİZLİ TIM-TEB START UP HOUSE

Start Up program was held with 2 different groups with 10 firms in Denizli TIM-TEB Start Up House in 2019. 2 jury meetings and 10 one-to-one consultancy interviews were held for 2 groups. 3 one-to-one consultancy interviews and 3 collective trainings within the scope of Global Up program, 6 one-to-one consultancy interviews with 8 firms within the scope of Follow Up program executed in order for following and supporting the previous term entrepreneurs were held. 6-days practice oriented training within the scope of Wake Up program with the participation of 96 students, and 12 different trainings with the participation of 2 groups and 60 business idea owner students within the scope of Let's Up program were held. 6 different trainings within the scope of Technologic Exporter firms and Entrepreneurship trainings were held. 194 participants attended the trainings, 195 persons attended the 'TÜBİTAK BIGG Presentation' Event held twice annually, as being once for each term. Call on May was announced within the scope of 2019 TÜBİTAK 1512 BIGG Support. 42 persons applied for TEB Executive Corporation with business ideas from Denizli. 21 persons participated in BIGG Business Plan Trainings, first business plan one-to-one interviews were held with 10 entre-

preneurs, and second interviews were completed with 6 entrepreneurs. Within the scope of the 2. phase selected 4 projects were sent to TÜBİTAK. Panel presentations of the entrepreneurs were completed, result are being waited to be announced.

Wake Up program with 106 students, Let's Up program with 30 students, Step Up program with 2 entrepreneurs, Start Up program with 6 enterprises, Level Up program with 3 firms were held in Denizli TIM-TEB Start Up House in 2. Term of 2018. Also, 4 different trainings within the scope of Technologic Exporter firms and Entrepreneurship trainings were held.



ERZURUM TIM-TEB START UP HOUSE

In two terms with 11 firms, 1 jury meeting, and 5 one-to-one consultancy interviews each within the scope of Start Up program, 1 collective training and 1 one-to-one consultancy interview with 3 firms within the scope of Strategical Growth Workshop program, 1 acquaintance meeting and 5 one-to-one consultancy interviews with 4 firms within the scope of Level Up program, 3 one-to-one consultancy interviews with 3 firms within

the scope of Follow Up program, 2 day training and 1 workshop with 9 firms within the scope of Foreign Trade Workshop program, applied training and activities with the participation of 122 senior grade students from Atatürk University Engineering Faculty within the scope of the applied entrepreneurship courses given at the universities, 3 day practice oriented training and activities for each group with the participation of 72 student within the scope of 2 Wake Up programs were held in Mersin TIM-TEB Start Up House in 2019. 5 different entrepreneurship trainings were presented for the relevant audience in the city, where 180 participants were meet.

Also, by 19 advertising and cooperation focused interviews and 8 event participations, 986 participants were reached, activities for increasing the popularity around the city and the relevant areas were held.



TİM-TEB START UP HOUSES SUCCESS STORIES IN TÜRKİYE INNOVATION WEEK



MET ADVANCED TECHNOLOGIES

MET Advanced Technology Systems is an organization established in Teknopark Izmir. Developing robotic systems and artificial intelligence solutions, MET digitalizes screwing operations with machine learning with its patented solution CERBERUS. It fulfills the requirements of Industry 4.0 with its predictive error prevention and predictive maintenance infrastructure in its digital twin cells. MET Microwave, which is among its standard products, continues to demonstrate the importance of domestic engineering in the products it develops by being entitled to receive Domestic Goods certificates in METFIX and CERBERUS. MET Microwave, METFIX and CERBERUS which are among its standard products, continues to demonstrate the importance of domestic engineering in the products it develops by being entitled to receive Domestic Goods certificates. Developing a food sorting robot with Deep Learning in current R&D projects, MET transfers its experiences to different

sectors. MET, continues to develop an autonomous disinfection robot called METBOTUV which hybridizes the MET Microwave product with UV, with its experience gained by increasing food safety and disinfection efficiency, with its 1000 square meter closed area and manufacturing infrastructure in Teknopark.MET, which makes 4 patent applications every year and whose total number of patent applications reaches 21, was awarded the Energy efficiency award by the Istanbul Chamber of Industry with its Industrial Microwave Oven product MET Microwave.

It fulfils the requirements of **Industry 4.0** with its predictive error prevention and **predictive maintenance** infrastructure in its digital twin cells.

"TİM-TEB Start Up House provides strategic support to entrepreneurs like us. It organizes important events on increasing the visibility of companies and bringing sector leaders and entrepreneurs together. Entrepreneurs are not charged any fees for any of the activities here. We think the support given is very valuable and important. We wish TİM-TEB Start Up House to increase such activities."

TREXO

Trexo Innovation manufactures cinema equipment that makes it possible to take moving cinematic images. The company, whose first products received a quality design award from Germany-based Red DOT design Awards in 2017, took part in advertising shoots of Adidas and Tatilbudur brands with its products that allow the cameras to move horizontally, called Trexo Moco Car. With the sharing of behind-the-scenes images of its products on social media accounts around the world, export demands created a contribution to the brand's awareness abroad. Trexo Innovation started to apply its experience and solutions gained in the cinema sector in the field of defence industry by receiving investment from T3 foundation. Currently, it continues to produce new solutions for unmanned aerial vehicles and unmanned ground vehicles in the defence industry. Trexo Innovation, which has completed the establishment of the company in the United States and is preparing to launch its camera carrying solution, which has patented features that are not available in the world for visual content producers in social media channels such as Youtube and Instagram, is taking firm steps forward in its export targets.

Their first products received a quality design award from Germany-based **Red DOT design Awards** in 2017, took charge in advertising shoots of Adidas and Tatilbudur brands.



"TİM-TEB Start Up House ensures that an entrepreneur avoids possible mistakes and time losses by sharing information as valuable as seeing the future with entrepreneurs. While this situation eliminates the problems of exhaustion of the entrepreneur's energy, capital and entrepreneurial desire, it also provides support for the next venture of the same entrepreneur as it increases the efficiency of the venture. At the same time, since they also use entrepreneurs as mentors, progress is made with constant fresh information. TİM-TEB Start Up House should be strengthened for the future of Türkiye and touch more people. I would like to thank all TİM-TEB Start Up House team for their cooperation."



FIZYOSOFT

Fizyosoft offers physiotherapy-occupational therapy measurement systems and rehabilitation solutions using virtual reality and sensor technologies. There are applications developed by Fizyosoft (global brand Becure) that can measure lower / upper extremity joint range of motion and posture analysis, balance measurements and hand/wrist joint range of motion measurements and include exercise games. Thanks to the application, users can exercise and measure by using applications in many centers like hospitals, physiotherapy centres, clinical centres, etc. and at their home. Experts can monitor the measurement-exercise objective measurement values of their patients and other users through the séance-based remote mobile application. It is included in CE Certificate and Medical Device Class I, which ensures the validity of all measurement system and exercise games developed within Fizyosoft for the sale of domestic and foreign markets.



There are applications developed by **Fizyosoft** (global brand Becure) that can measure lower / upper extremity joint range of motion and **posture analysis, balance** measurements and hand/wrist joint range of motion measurements and include exercise games.

"Thank you for the mentorship and business network support provided by TIM-TEB Start Up House for physiotherapy solutions developed by our company."



**fast.
smart.
lightweight.**



THREAD IN MOTION (TIM)

Thread in Motion (TIM) is a wearable technology platform which offers solutions to increase operational efficiency in areas such as production, logistics, warehouse management. Founded in 2017 and consisting of a team of 15 people, Thread in Motion; With its smart glove product, it aimed to establish an ergonomic, fast and traceable system in industrial environments, and included companies such as Mercedes-Benz, Renault, Brisa, Honda in its customer portfolio in a short time. TIM increased the valuation of the company to more than 50 million TL with the investment it received in 2019. TIM, which already has customers in 8 different countries and has added many companies from the logistics sector to its customer portfolio in 2020, has set increasing the export potential as the top priority target and continues to work on this path.

TIM, which already has customers in **8 different countries** and has added many companies from the logistics sector to its customer portfolio in 2020, has set increasing **the export potential as the top priority target** and continues to work on this path.

"Our collaboration with the TIM-TEB Start Up House project goes back to the past and we have been benefiting from this partnership for a long time. We benefited from the opinions of many industry professionals introduced by the Start Up House and we attended many events it organized. Especially these events helped us to establish targeted networking, to see the responses of our business on both the field and the investor's side, and to meet people who could support us globally. In this regard, we would like to thank once again for the support provided to us by the Start Up House."



CODEMODEON

With its new project QuizModeOn, Codemode-on designs online contents supported by gamification for various target audiences, especially in-house employees. Codemodeon, one of the companies that realized the first VR project in Türkiye, has been offering virtual reality (VR), augmented reality (AR), expanded reality (XR), etc. since 2013, and it blends creative fiction with next-generation technologies and designs brand-specific interactive experiences and digital games. The project "ISG VR" about "Working at Height" designed for Türk Telekom was deemed worthy of "The Stevie Awards for Great Employers" and "Brandon Hall Excellence in Technology" awards. For end-users, we designed football-themed "Head Goal V" project submitted under Türkiye Innovation Week "Crystal pixel" has won the award.

The project "ISG VR" about "Working at Height" designed for Türk Telekom was deemed worthy of "The Stevie Awards for Great Employers" and "Brandon Hall Excellence in Technology" awards.





INOVATIM
YOUNGEST AND
MOST INNOVATIVE
FAMILY OF TÜRKİYE

!NNOVATION

ANNUAL

REPORT



THE YOUNGEST AND PROGRESSIVE INNOVATION ECOSYSTEM OF TÜRKİYE



InovaTIM, the youngest and progressive ecosystem of Türkiye, is actualized to raise and educate the 2920 university students from 72 cities and 150 universities of Türkiye with the aim of especially innovation, intellectual capital, economics of information age, entrepreneurship by Türkiye Exporters' Association.

Online and offline courses are given, workshops are organized, participation to business delegations are to increase the abroad experiences of university students' by InovaTIM. With the visitation to important science centers such as NASA, Google, Stanford University, InovaTIM actively participates

in major events and summits focused on innovation and entrepreneurship such as Slush/Finland and Maker Fair/ San Francisco internationally, and Türkiye Innovation Week and Teknofest nationally.

Project teams which created by university students from InovaTIM participate to international competitions. APIS research- developments team which is within the structure of Istanbul Technical University has won the first place on general ranking in CAN-SAT model satellite competition which also has NASA within the organizers, AtaUni Racing Team which is within the structure of Erzurum Ataturk University has won the 3rd place in Class 2 section of Formula Student competition which is performed in England. InovaTIM's students still have been making scientific research and have been contributing the projects in many different fields.

InovaTIM's students who took part in trade missions have contributed to cultural diplomacy in **5 continents and 27 different countries.**

TECHNOLOGY AND EFFICIENCY FAIR

■ 6 projects, 6 different workshops and 30 students have participated in the Efficiency and Technology Fair, which was held on between 31 October - 3 November 2019.

■ During the Fair InovaTIM's booth was one of the most interesting booths. Mehmet Cahit TURHAN Minister of Transportation and Infrastructure, Süleyman SOYLU Minister of Interior and Dr. Mehmet Muharrem KASAPOLU Minister of Youth and Sports visited InovaTIM's booth.



6 projects, 6 different workshops and **30 students have participated** in the Efficiency and Technology Fair, which was held on between **31 October - 3 November 2019.**



BOSPHORUS SUMMIT

■ The blood stainer device used in the haematology laboratory developed by our students and the model satellite in which our ITU Apis team won the championship award was exhibited during the event.

TEKNOFEST



112 InovaTIM students have participated in Teknofest, which was held on **17-22 September 2019.** InovaTIM took place in the field for 6 days with 9 projects.

PROJECTS FOCUSED ON INNOVATION WHICH ARE PERFORMED BY INOVATIM STUDENTS



- **BabyThings:** Wearable wristband which can be worn the baby's wrist to show and calculate the heartbeat and amount of oxygen in the blood. Developed for the parents who need to their 0-4 years old baby's vital data.
- **Model Satellite - ITU Apis:** The model satellite, developed by ITU Apis R&D team members, was the winner of the general classification in the CANSAT Competition, in which NASA was among the organizers.

■ **Food Computer:** The projects of growing plant in liquid environment. The project is the platform of providing to grow plant in the soilless conditions.

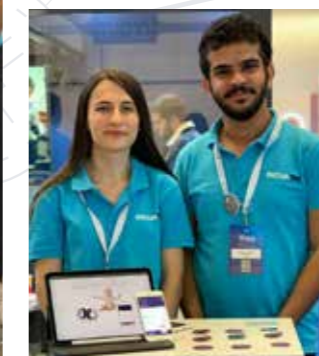
■ **Formula Device - AtaUni Racing:** The device which is developed by AtaUni Racing Team members won the third place and passed the Oxford's, Liverpool's and London's teams in the Formula Student competition which is the most prestigious engineering student competition.

■ **Autonomous Underwater Vehicle - ITU ROV:** ITU AUV Team is settled by 3 years underwater experiences of different faculties students. Autonomous Underwater Vehicle "AUV" is being used in different fields, such as defence industry, oil industry and scientific underwater research. These vehicles are able to move autonomously and accomplish the duties which are programmed on them.

■ **Dental SLA 3D Printer:** An accessible device which allows dentist to integrate 3D printers which are a requirement for digital dentistry. Within the 3D printers which use rosin dentists can produce surgery implant guide, orthodontic model, transparent dental plate, temporary crown, and banding. Treatment time is made shorter, and error rate is decreased.

■ **FRA Vehicle:** A duty robots which can make cargo handling, trapping, and climbing to a half meter height. FRA Vehicle participated to FRC Competition which organized by FIRST Foundation in the USA.

■ **Electricity Producer Which Can Produce Intended Amount of Electricity:** Within this study, a battery which is more environment friendly, cheaper,



more durable, able to recycle has found out. It has features like alkaline battery and accumulator. It operates electronic devices, such as LED lights, wall clocks and calculator. Also, it charges accumulators, old and android phones, and capacitors.

■ **YTY-80 Laboratory Staining Device:** It is stained to make easier to body fluids research and procure to clearer cell images. It can be used all kind of liquid analysis. Within this device which developed for haematology, and already has been using in Erzurum Atatürk University sample staining process is shorter, and examinations with microscopes is easier.

In line with the aim of creating a new, and innovation-based culture which produces and develops, "Artificial Intelligence and Innovation to High Schools Courses" has been maintained. In 2018-2019 education period the first "Artificial Intelligence and Innovation to High Schools Courses" are performed with 32 cities, 207 high schools and 9824 high school students by university students from InovaTIM. Innovation and robotic subjects were taught and information about university life and departments was given with 10 weeks syllabus to high school students by university students from InovaTIM who had already took a course about innovation and robotic. Then a robot which able to move according to different colours, recognize and describe items and stop - change direction when it encounters items was created to will be used in image processing title under robotic courses from 2020.

In line with the aim of creating a new, and innovation-based culture which produces and develops, **"Artificial Intelligence and Innovation to High Schools Courses"** has been maintained.



BREAKTHROUGH AND INNOVATIONS OF !NOVATIM

78 students from InovaTIM participated to "Shell Eco Marathon Türkiye" competition which is performed 4th time in cooperation with Uludag Automotive Industry Exporters Association and Shell Türkiye

Atatürk University InovaTIM team AtaUni Racing get acceptance to Formula Student England competition.

InovaTIM project team İTÜ APİS team presented the PDR presentation on CANSAT COMPETITION which organized by NASA.

Within 302 high schools from 32 cities meetings were done and 215 application processes were completed.

Trainings which are contained of Artificial Intelligence and Innovation Education for High Schools Project are maintained in 32 cities and 207 high schools.

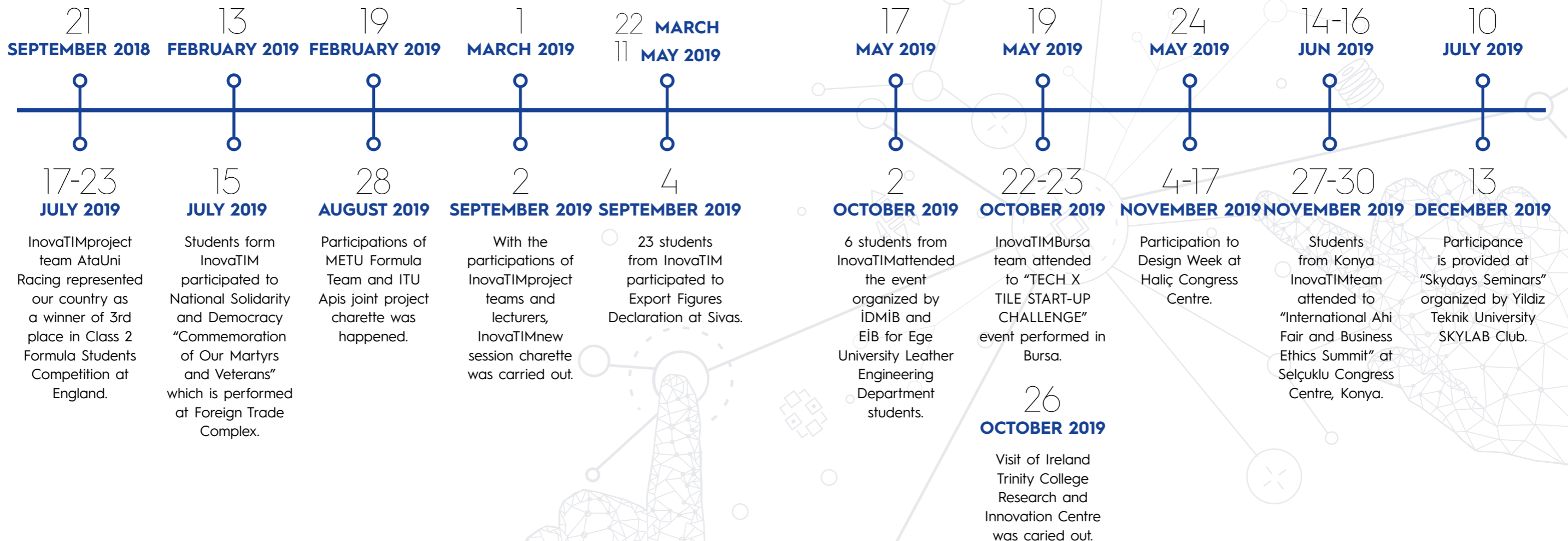
Artificial Intelligence and Innovation Education at High schools' 10-week syllabus was completed.

Students from InovaTIM together with the President of TIM and exporters participated in the celebration of the 100th anniversary of May 19, when the Great Leader Mustafa Kemal Atatürk and her comrades set foot in Samsun and started the War of Independence.

İTÜ APİS, project team of InovaTIM, completed the preparation of CANSAT COMPETITION's attendance.

In Model Satellite competition CANSAT, İTÜ Apis which has been supported for 2 years, won the 1st place in satellite launch, among 43 teams.

Our World Leader team İTÜ Apis Research-Development represent the presentation to Management Board of TIM



INOVATIM'S SUCCESSFUL STUDENTS AND TEAMS



AYKUT ÜÇTEPE

Aykut ÜÇTEPE, one of the successful students of InovaTİM, had maintained the helicopter project he works on. He completed the literature interview for "Autonomous Fire Extinguishing Helicopter". Project provide a facility to easy intervention to summer fires.



NURETTİN ÇEK

Nurettin ÇEK, one of the successful students from InovaTİM, take out patent ya da get patent for "Electricity Producer Which Can Produce Intended Amount of Electricity" project. He had an opportunity for represent his projects on Teknofest InovaTİMproject booth. Nurettin Çek had maintained his research about Electrochemical Impedance Spectroscopy Device. He carried out studies about Producing Electricity by Bioenergy Technic and get a patent in this case.



MUSTAFA DEMİRTAŞ

Mustafa DEMİRTAŞ, one of the successful students from InovaTİM, developed an accessible device which allows dentist to integrate 3D printers which are a requirement for digital dentistry. This device can produce surgery implant guide, orthodontic model, transparent dental plate, temporary crown, and banding also it make treatment time shorter.



ÖZLEM AĞAN

Özlem AĞAN, one of the successful students from InovaTİM, produced a wearable wristband which can be worn the baby's wrist to show and calculate the heartbeat and amount of oxygen in the blood. Developed for the parents who need to their 0-4 years old baby's vital data.



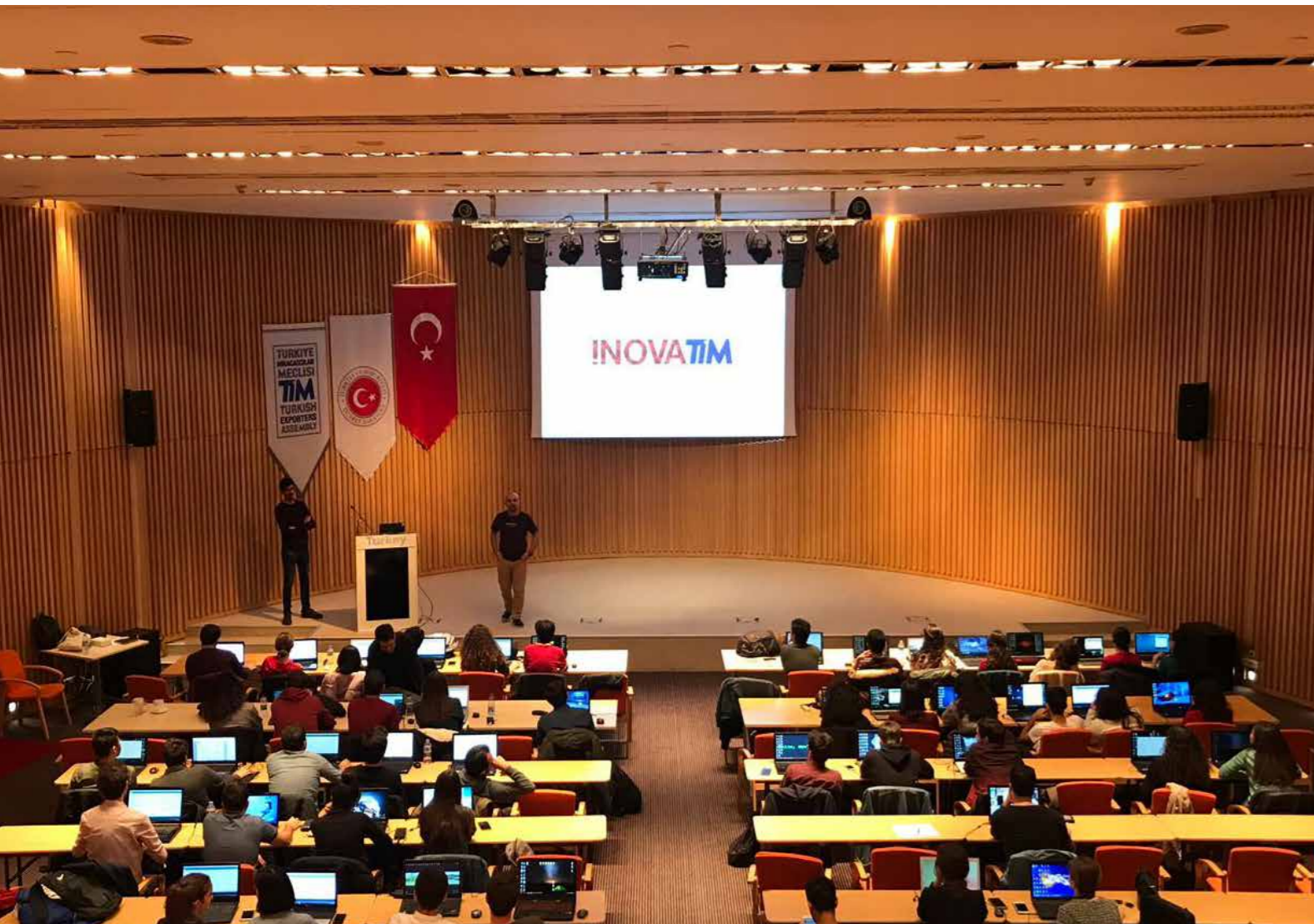
INOVATIM HIGH SCHOOL ECOSYSTEM FRC ROBOT TEAM

FRC team of high school students from InovaTİMattended to FRC competition in Mersin on 21 October 2019 to develop the robot which is created for grand final in the USA. InovaTİM-FRC team received the award in Innovation Control in Mersin Turkish Robots Off Season in the last competition where they can test themselves before the American competition. The

award was given for controlling robot systems with innovative ideas and software success. In addition, our InovaTİMHigh School Ecosystem robot team received a two-day training "FRC Industry Production - Robotic Systems, Software and Usage Areas in FRC, 3D Mechanism Design with SolidWorks" provided on FRC to high school students.

Students from InovaTİMhave been representing Türkiye successfully by carrying out **the projects and international competition** which they participated in.

!NOVATIM PROJECT OF ARTIFICIAL INTELLIGENCE AND INNOVATION EDUCATION FOR HIGH SCHOOLS



In 2018-2019 education period the first “Artificial Intelligence and Innovation to High Schools Courses” are performed with **32 cities, 207 high schools and 9824 high school students** by university students from **100 universities**.

PROJECT AIMS

“Artificial Intelligence and Innovation Education in High Schools” project was implemented in 2018 in line with the goal of creating a culture that produces and develops by taking innovation to the centre point in Türkiye by InovaTIM, the youngest and most innovative family in Türkiye, and instilling entrepreneurial awareness.

The project aims to develop innovative, high value-added projects mixed with the power of Innovation, science and technology by high school students and to represent our country successfully by participating in international competitions. The project was firstly submitted to the Ministry of Education (MEB) and the activities were accelerated after the support received from the relevant units. Documents related to the curriculum were shared with high schools in coordination with the MEB, and interviews were conducted with about 360 public high schools throughout Türkiye.

For the first time “Artificial Intelligence and innovation education in high schools” project was carried out in the 2018 - 2019 academic period with about 100 university students in !NOVATIM-Mand 9.824 high school students from 207 different high schools from 32 cities. Industry 4.0, IoT, Innovation, Information Age economics, entrepreneurship, export and artificial intelligence as part of a regular program with a 10-week syllabus, high school students were trained in related topics and mentored about university life and departments. The trainings are shaped according to the cultural characteristics of the cities, and the education curriculum is supported with various examples considering cultural, social, and environmental characteristics. It is also taught how the students who receive education can use and improve the opportunities in their own environment with the applications carried out. After the trainings, to be used in the content of image processing in robotics trainings to be given from 2020; a robot which performs the tasks of moving back and forth according to colours, identifying objects by distinguishing them and changing direction by stopping when encountering obstacles.

Another aim of the project is to improve the students’ ability to produce and succeed together. In this context, as a result of the trainings they received, the students formed teams, developed projects and represented both their

schools and our country by participating in national / international competitions. At the end of the first year, high school students have achieved various successes in team building, generating ideas, developing projects, acting together, finding support for their projects, and participating in competitions. Erzurum Atatürk Vocational and Technical Anatolian High School students came in second in the robotics competition held throughout Erzurum. InovaTIM high school project team Sneaky Snakes became the champion of Türkiye by finishing first in the Bosphorus Regional competition of Türkiye, qualified for the world championship, and was awarded the best autonomous robot and best mentor awards. The Sneaky Snakes team won two of the “Blue Banner” flags, representing three of the most valuable awards out of 26 in regional competition. The innovative ideas developed by the high school students who are educated show that the project is progressing confidently towards the goal by achieving various successes in competitions organized in both the national and international areas. The project was designed to be applicable all over



the world, taking into account the universality of innovation and coding concepts. The project aims at the emergence of innovative and value-added ideas with the awareness created by innovation, entrepreneurship, robotics, and basic coding training in accordance with the conditions of the developing and changing world. It is important for the projects produced to be successful in national / international areas and to make the ecosystem sustainable in terms of raising students’ awareness of innovation and entrepreneurship. Encouraging young people to be entrepreneurs with inspiring examples and being idol students with what they have achieved demonstrates the success of the project.



FEATURED ACTIVITIES AND ACHIEVEMENTS

From Türkiye's 72 cities, with 3 thousand volunteers Innovation ambassador students of members of InovaTIM who focused on innovation, A Youth Camp was held in Mersin-Silifke with the participation of more than 200 InovaTIM students from 40 different cities, with the contribution of the Ministry of Youth and Sports between 25-31 August 2018. While 151 of 235 students participating in the summer camp received training in the robotic coding, IoT category, 84 students completed their education in the fields of innovation, entrepreneurship and economics. Development cards (Turta) developed by trainer Umut Erkal were used for robotic coding and IoT training within the scope of the one-week training. Within the scope of this training, the students had the chance to apply what they learned and increase their skills with the understanding of the integration of the software-physical world with the switching hardware, the control of systems by other creatures and the fixed user experience, the discovery of the cloud other data storage capabilities except for data processing.

After the camp, trainings were continued in 10 different central cities, Adana, Bursa, Erzurum, Gaziantep, Isparta, Istanbul, Izmir, Kayseri and Trabzon. With these trainings, the number of volunteer trainers in the project was increased to 589. Trainers conveyed the 10-week syllabus to 9,824 students in 207 high schools in 32 cities in the February-May period of 2019.

The "Artificial Intelligence, Innovation and Entrepreneurship Trainings in High Schools" project was implemented in the 2018-2019 academic year. 2019-2020 academic year in 324 schools in all regions of Türkiye (Anatolia and Vocational Technical High School) updated syllabus with image processing, IoT, innovation, entrepreneurship and economics 15,000 high school students are being aimed to reach. As long as the developments in the world continue, it is aimed to update the training contents and the materials used, to reach a wider audience and to increase the number of successful projects. There is a profound desire from institutions, teachers and students in regard to the continuation of the trainings. 36 high schools that were not included in the list for training in the first year of the project submitted their wish to take part in the project in the following years.

The research made with 2562 students from 32 different cities Z generation in Türkiye, by measuring the effect on each of the concepts which are Social Intelligence, Cultural Intelligence, Emotional Intelligence, of Innovation and Entrepreneurship trends were investigated. The "Generation Z Report", which is included in the report regarding the project outputs, also includes the opinions formed by examining the studies conducted in this field in the world. With the Artificial Intelligence, Innovation and Entrepreneurship Trainings in High Schools project, 207 students in Ana-

tolian and Vocational and Technical disadvantaged high schools in 32 different cities were determined in order to ensure equal opportunities in education, and students were provided with education in their schools. For the first time, artificial intelligence, robotics, entrepreneurship and innovation trainings were conveyed to high school students in such a wide scope by volunteer trainers, all of which were formed by InovaTIM innovation ambassadors. With the educational activities, the talents of high school students are discovered and it is aimed for the students to produce, achieve, innovative, high value-added projects together.

In addition, a significant success was achieved by the student named Nurettin Çek with the "Electricity Generator Producing Electricity at Desired Power" study. With this study, a more environmentally friendly, more economical, longer-lasting, the recyclable battery that

produces electrical energy was generated. Like an alkaline battery and an accumulator, "Electricity Generator Producing Electricity at Desired Power", LED lamp, wall clock, calculator and etc. it operates electrical appliances and manufactures an electricity generator that can charge batteries, capacitors, old-style buttons and android mobile phones. "YTY-80 Laboratory Painting Device" was produced by Yağız Alp Yılmaz and Oğuzhan Tuvanç and the company named Ansatek was established. In order to make examinations of body fluids easier and to obtain clearer cell images, they are subjected to the staining process. The device can be used in all liquid analysis. The device developed for the blood staining process used in the haematology laboratory and currently used in Erzurum Atatürk University, the speed of sample staining increases considerably and examinations under the microscope can be easier.

OUR E-MAIL AND SOCIAL MEDIA ACCOUNTS ABOUT THE PROJECTS



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Uygulama



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