



This project is co-financed by the  
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finanse edilmektedir



TURKEY<sup>in</sup>  
**HORIZON 2020**  
COOPERATION INNOVATION COMPETITIVENESS

Technical Assistance for Turkey in Horizon 2020 Phase-II  
EuropeAid/139098/IH/SER/TR

# The Information Multiplier Foresight Report Results

The future of the Information Multiplier network in the context of the Turkish Research and  
Innovation ecosystem and Horizon Europe

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*Zoom, 19 Oct 2022*

Photo by Christian Lue on Unsplash



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



COMPETITIVE  
SECTORS  
PROGRAMME



TÜBİTAK

# Information Multipliers System

The problems we have identified

- Lack of clear mandate
- Lack of transparent selection procedure
- Disengagement of individuals
- Few incentives to participate
- Weak Branding
- Lack of activity portfolio
- Lack of visibility rules
- Absence of a monitoring & reporting system



# Focal Question & Time Horizon

## A Foresight Exercise on IMS

- *How will EU-Turkey research cooperation transform by 2027?*
- *What drivers will affect the Turkish participation in HE towards and beyond 2027?*

### Output:

- Scenarios for the future of the IMS
- Suggestions for policies and immediate actions to improve the operation of IMS

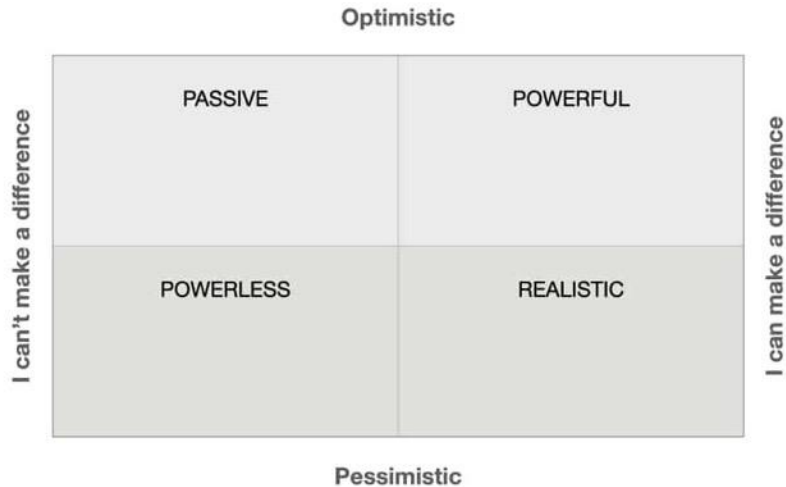


# Polak Game

Ask yourself

## The Polak Game

Where do you stand regarding the future?

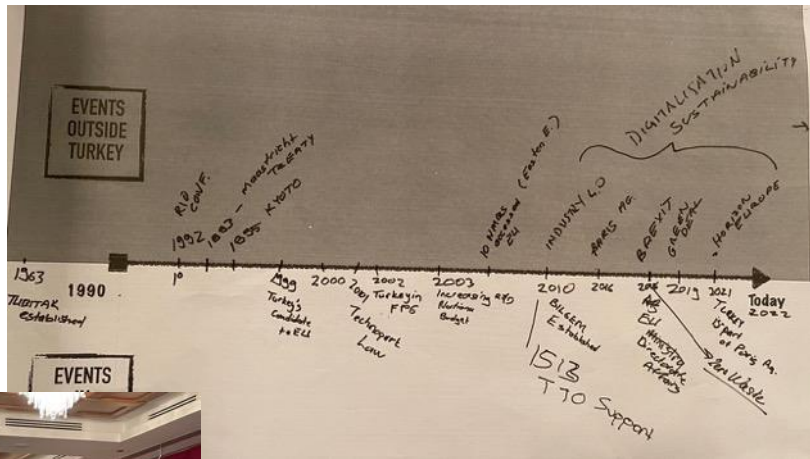
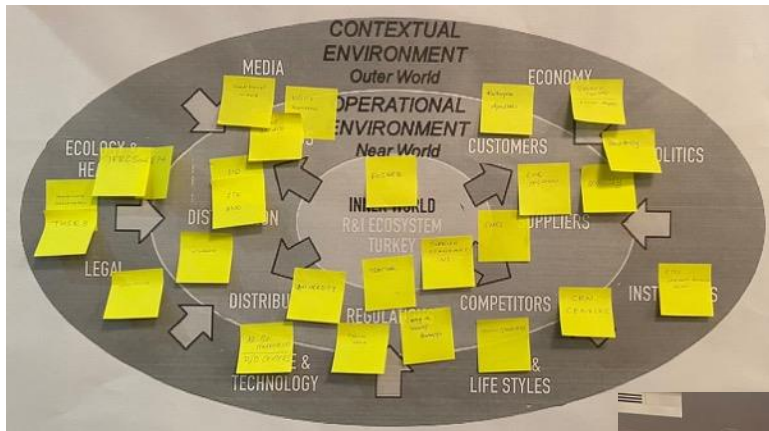


**Most people felt pessimistic for the future BUT  
a lot of people believed they could make a difference.**



# Contextual Environment

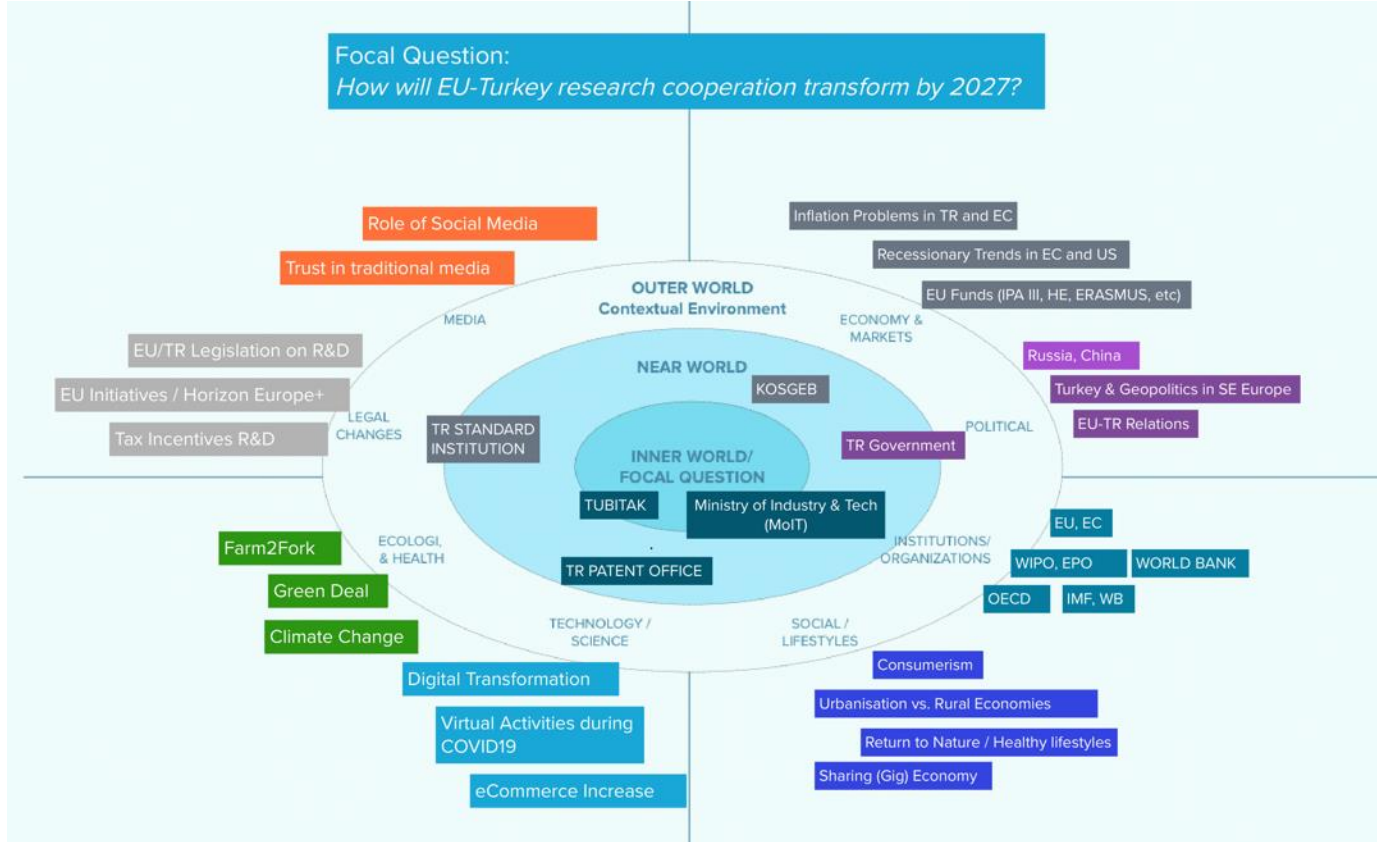
Economy, Politics, Institutions, Social & Lifestyles, Technology & Science, Legal, Ecology & Health, Media





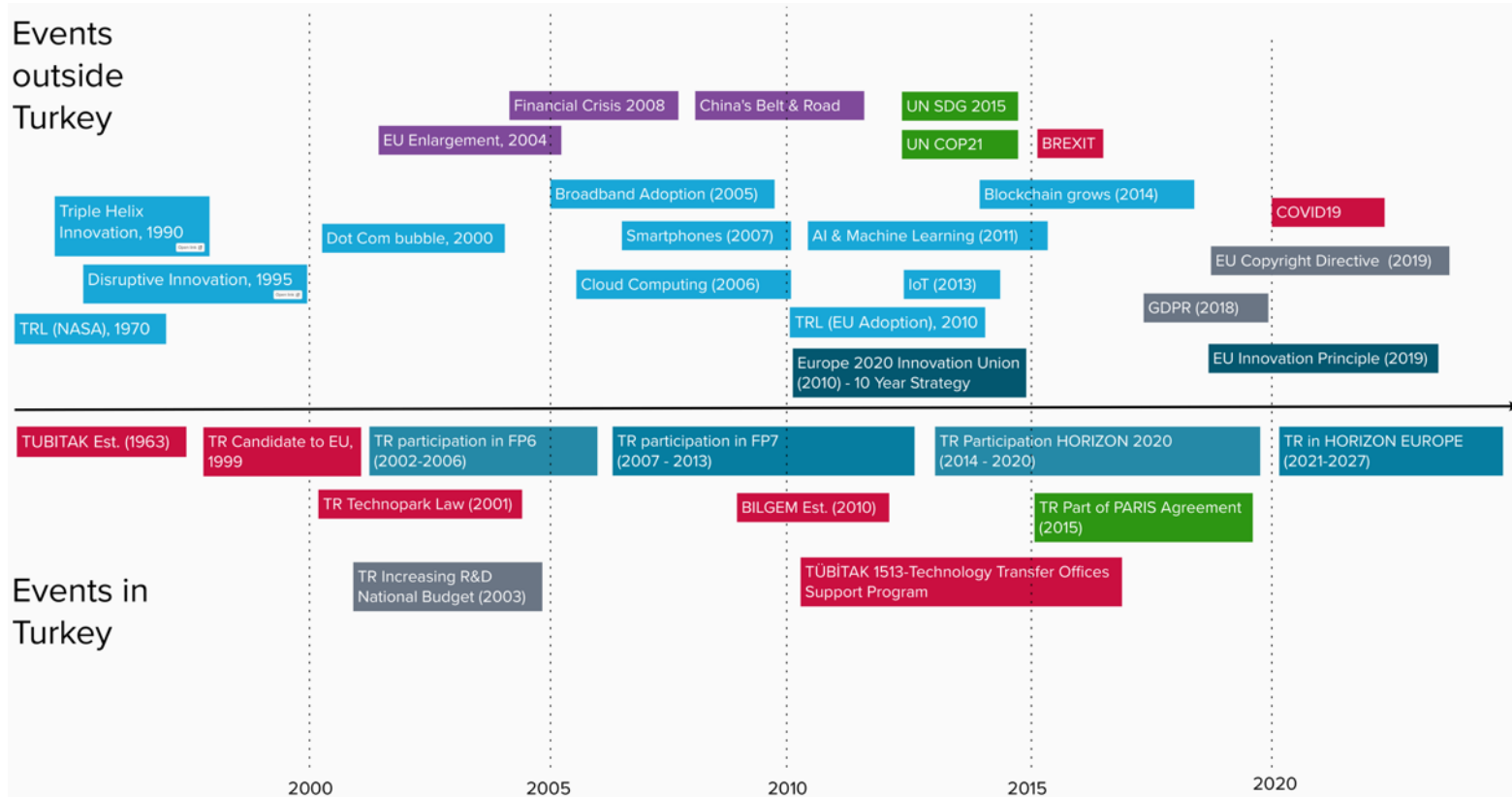
# Our Contextual Environment

based on your responses



# Looking back

Past events in Turkey and in the world as seen by our participants



# Megatrends

## Megatrends consolidated Analysis



**Megatrend Analysis**  
Year 2027  
The next horizon of our economy

Analyse the impact of megatrends on the Research & Innovation Landscape of Turkey

**What are the main drivers that will impact the Research & Innovation landscape in Turkey, by 2027 ?**

**Global Megatrend**  
Megatrends are major phenomena that are expected to continue to grow in a similar direction in the future.  
• Mark the strength of their impact on your theme.

**Environmental Degradation/Climate Crisis**

**Resource scarcity**

**Aging populations**

**Global population growth**

**Urbanization**

**Rapid technological development**

**Growing middle class globally**

**Everything connected (Human/Things)**

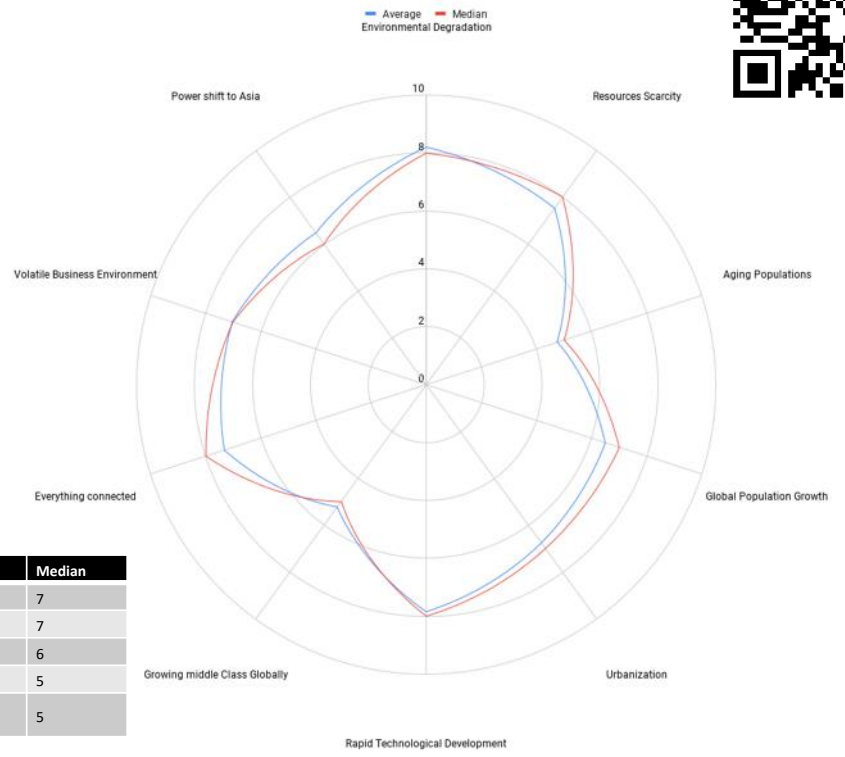
**Volatile business environment**

**Power shift to Asia**

**Impact on your theme**

- What is the greater direct impact to your theme?
- If there is no direct with the greater indirect impact.

Impact of MEGATRENDS



#	IMPACT of MEGATREND	Average	Median	#	IMPACT of MEGATREND	Average	Median
1	Environmental Degradation	8.19	8	6	Urbanization	6.76	7
2	Rapid Technological Development	7.84	8	7	Global Population Growth	6.50	7
3	Resources Scarcity	7.54	8	8	Power shift to Asia	6.47	6
4	Everything connected	7.33	8	9	Growing middle Class Globally	5.24	5
5	Volatile Business Environment	7.03	7	10	Aging Populations	4.77	5



# Drivers of Change

Trends and Signals

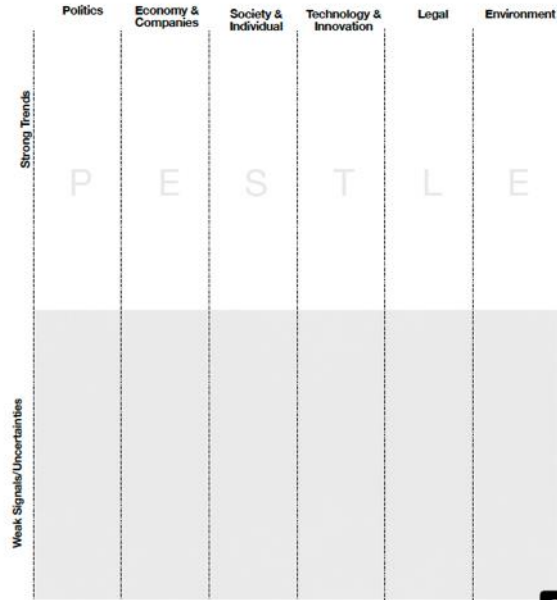
## Drivers of Change

Turkey R&I 2027

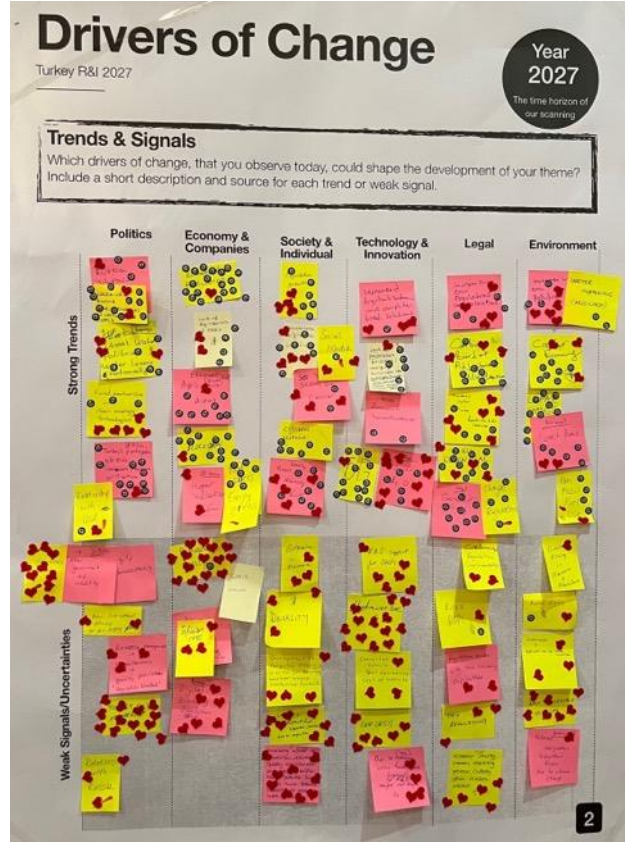
Year  
**2027**  
The time horizon of  
our scanning

### Trends & Signals

Which drivers of change, that you observe today, could shape the development of your theme? Include a short description and source for each trend or weak signal.



2



2

# Drivers of Change

## Trends and Signals

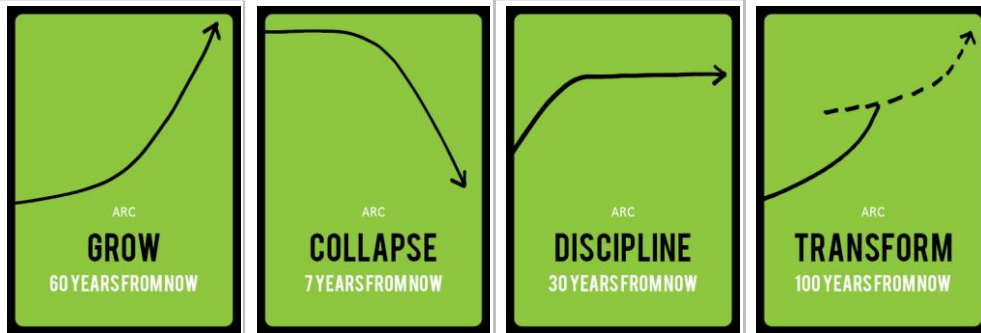
*The darker the color of a cell the more important this trend may be for our theme.*

*Weaker signals or trends that are not expected to have an important impact appear with lighter colors.*

POLITICS	ECONOMY	SOCIETY	TECHNOLOGY	LEGAL	ENVIRONMENT
<b>STRONG TRENDS</b>					
Geopolitics (Ukraine/Russia)	Hyper Inflation	Population growth	Lack of digitalization	Change Regulations	Environmental regulations
Funding Mechanisms	Blockchain	Social Media	Artificial Intelligence	R&I in Presidential System	EU Green Deal
TR participation to EU	Food & Energy prices	Cancer Studies	Industry 4.0		Carbon Border Adjustment Mech.
USA-TR Relations	Lack of Crisis Preparations	Citizen Science	5G/6G		Circular Economy
		Brain Drain	Emerging Tech		Forest Fires
		Gender Equality			Clean water & Oceans
<b>WEAK SIGNALS</b>					
RU-TR Relations	Inflation Rate	Refugee Crisis	R&I Support for SMEs	Environmental Regulation Implementation	Raw material scarcity
New Alliances	Taxes	Earthquake	Metaverse	Regulation gaps	Immigration due to climate
National Security R&I restrictions		Qualified Personnel	Connected Vehicles		Overfishing
			Chip Crisis		

# The Thing from the Future

A game



**THE THING FROM THE FUTURE**

1) YOUR CARDS

ARC      TERRAIN      OBJECT      MOOD

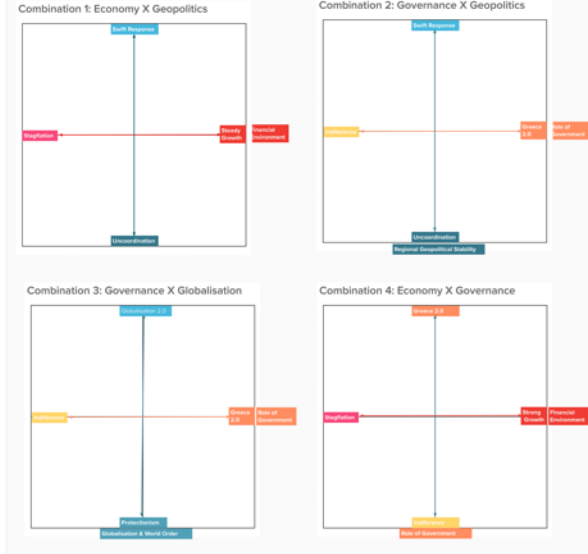
2) DESCRIPTION

3) SKETCH

# Scenarios Building

## Scenario Building & Strategy Ideas

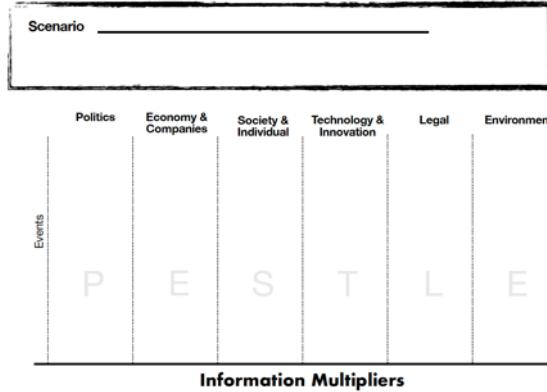
### Scenarios Combinations



## Scenario Building

Description of the future world

Year 2027



**Mission & Vision:**

**Main clients:**

**Selection procedure:**

**Incentives for organization and individuals:**

- 1.
- 2.
- 3.

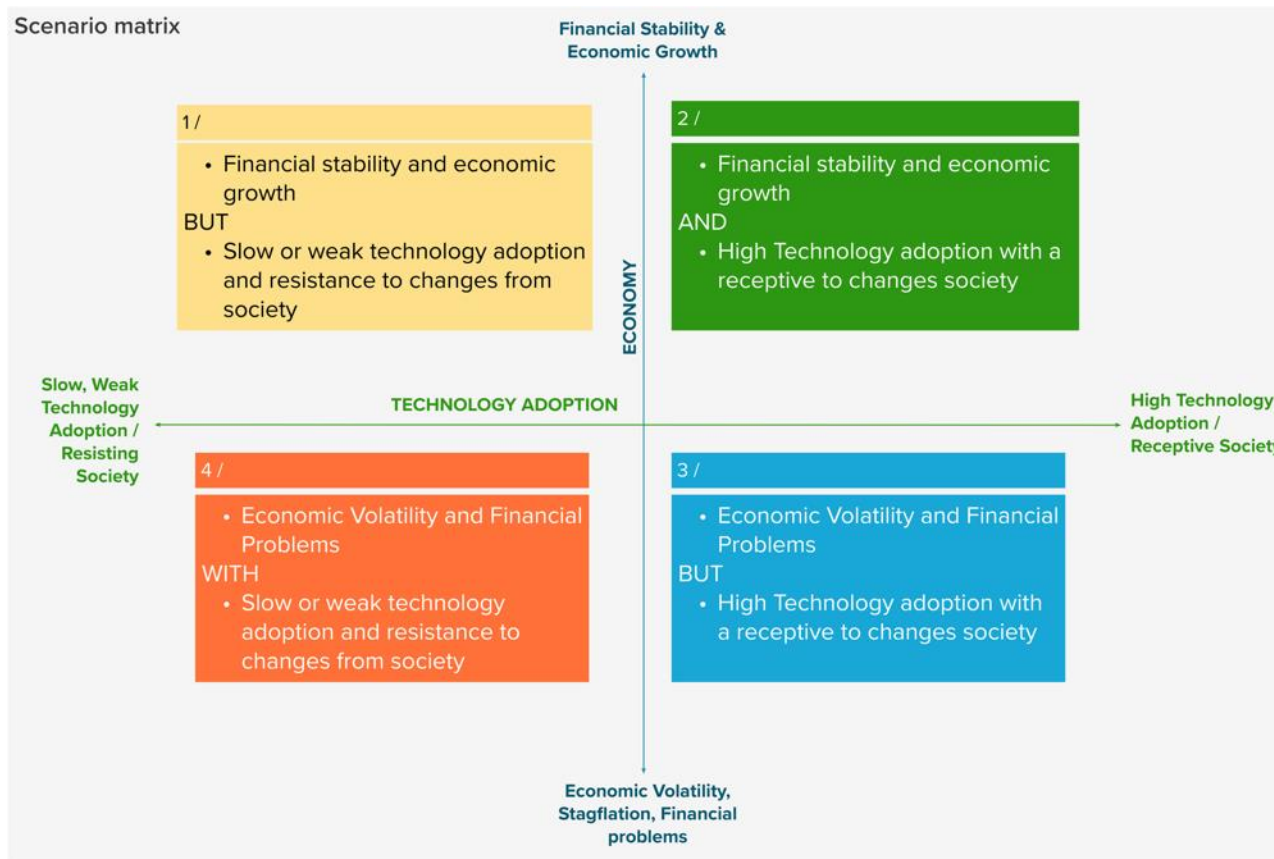
**Activity portfolio/services:**

- 1.
- 2.
- 3.



# Scenarios: the future of IMs

## Scenario Building & Strategy Ideas



# Four Scenarios on the future of IMs

## Scenario Building & Strategy Ideas



### Scenario 1: The Turtle

Financial stability, economic growth combined with weak technology adoption



### Scenario 2: The Bull

Financial stability, economic growth paired with high technology adoption



### Scenario 4: The Wolf

Economic volatility and financial uncertainty combined with weak technology adoption and resistance to technological changes



### Scenario 3: The Bear

Economic volatility and financial uncertainty combined with high technology adoption



# Scenario 1: The Turtle

Financial stability, economic growth combined with weak technology adoption



- Stable political situation without major disruptions
- Inflation is quite stable and follows the financial situation in the EU
- Signs of forthcoming growth
- Improvement of the economic climate

**BUT**

- businesses and society are reluctant to invest in new technologies
- not a lot of new products or ideas found their way to the market
- organisations and businesses exhausted by years of financial hurdles not willing to invest in new technologies
- low efficiency production in the industry

IMS redesigned in 2023 but it could not reach its full potential due to lack of interest and clear incentives for the institutions/organisations that were involved.

# Scenario 2: the Bull

Financial Stability and economic growth paired with High Tech adoption



- country's democracy is enhanced
- political situation remarkably stable and highly functional
- government invested in equal representation and gender balance initiatives
- National Healthcare system has equally benefited from this infrastructure and AI based diagnosis
- Research and Innovation ecosystem has been one of the drivers of this transformation
- Turkey is also part of all international climate change initiatives
- new acceleration and incubation programs by TUBITAK
- new wave of spinoffs and startups

IMS very active in all these initiatives. Expanded as the original network of Multipliers and their hosting institutions understood and embraced their mandate

# Scenario 3: the Bear

Economic volatility and financial uncertainty combined with high technology adoption



- Energy and geopolitical crisis of the past decade are still affecting the economy
- financial uncertainty causes political instability
- Financial problems and budget constraints have frozen the long-needed investments in clean water security
- new very promising technology introduced on water cleaning, water preservation and the continuous monitoring of the quality, BUT these successful pilot projects were not widely adopted
- Economic volatility and political bipartisanship are also hampering good governance
- Higher education system is also facing problems
- Increased awareness and high levels of technology adoption have created a push for selling innovations and high tech developed by Turkey to fight economic volatility

IMS very helpful in raising awareness in alternative R&D funding. The participation of Turkish Organisations in Horizon Europe was the highest so far and a lot of institutions have been benefited. Unfortunately, commercialization of all these project results is still very low despite their promising ideas.

# Scenario 4: the wolf

*Economic volatility and financial uncertainty combined with weak technology adoption and resistance to technological changes*



- Financial instability is still creating major problems across every aspect of the Turkish economy
- Regulatory and legislation initiatives are slow and partisan
- energy and financial crisis of 2023 has turned into a continuous recession
- persistent hyperinflation
- Climate change is affecting the European South and Turkey is suffering from sea water contamination
- Financial uncertainty increases the fear of a continuous financial crisis
- Society feels alienated from science and technology
- almost toxic environment highly skilled scientists and capable researchers are leaving the country for better opportunities creating a further brain drain of the country

IMS never took off and the host institutions did not support the new vision and mission. The participation of organisations and institution in Horizon Europe was not as expected, creating further disappointment and disengagement.

# The vision of the future

## Vision and Mission

<b>Vision</b>	Information Multipliers System, becomes a driving force for promoting, facilitating and supporting Research and Innovation across the ecosystem and society at large.
<b>Mission</b>	<ul style="list-style-type: none"><li>• Increase awareness of stakeholders and society in Research &amp; Innovation opportunities</li><li>• Mobilize and facilitate stakeholders to build a zero-carbon inclusive ecosystem</li><li>• Support the research and innovation community to solve the problems that the economic volatility creates</li><li>• Increase prevalence of alternative technologies</li><li>• Create more stable environment for research and innovation ecosystem</li><li>• Help integrate TR into the highly developed countries</li></ul>
<b>Clients</b>	<ul style="list-style-type: none"><li>• Researchers, Universities, Technoparks, TTOs</li><li>• Companies, SMEs, entrepreneurs</li><li>• Investors, Industry</li><li>• NGOs, Public</li></ul>

# Incentives for IMS

## Individuals & Host Organisations

- **Exclusive training** for IMS
- **Certification** for IMS
- **Increased Visibility**
- **Continuous Monitoring**
- **Networking**
- **IM Club**
- **Internship**
- **Committed time**
- **Increased visibility**
- **Access to an exclusive network**
- **Improved Services**



# Service Portfolio for IMs

## Individuals & Host Organisations

- **Dissemination & Awareness Raising:** Infodays and other introductory events
- **Trainings & Workshops:** Any kind of short or longer training course that could help stakeholders increase their participation in Horizon Europe.
- **Networking and Matchmaking:** IM institutions can host networking and matchmaking events in specific focus areas to bring together researchers and entrepreneurs.
- **Partnering with NCPs:** Information Multipliers can support NCPs in events and announcements.
- **Advising in national decision making:** Information Multipliers can be the pool from where TUBITAK can recruit experts
- **Consulting:** Delivery of consulting services for proposal writing, access to grants and implementation of projects.
- **Use of ICT:** Privileged access to TUBITAK portal

# Teşekkür ederim!



# Thank you!

## Q&A

Time to ask your  
questions!

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