

# How does the near future of mobility look like? – Foresights, challenges and trends

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# What constitutes modern decision-making?

Year	Topic of Nobile Prize Winner for Economics
1969	Dynamic models for the analysis of economic processes
1970	Static and dynamic economic theory
1972	General economic equilibrium theory
1975	Theory of optimum allocation of resources
1985	Analyses of saving and of financial markets
1987	Theory of economic growth
1991	Transaction costs and property rights
1992	Human behaviour
1993	Economic and institutional change
2001	Markets with asymmetric information
2002	Decision-making under uncertainty
2004	Driving forces behind business cycles
2017	Behavioural economics
2018	Integrating technological innovations into long-run macroeconomic analysis

Source: [https://en.wikipedia.org/wiki/List\\_of\\_Nobel\\_Memorial\\_Prize\\_laureates\\_in\\_Economics](https://en.wikipedia.org/wiki/List_of_Nobel_Memorial_Prize_laureates_in_Economics)

## Demand for future studies



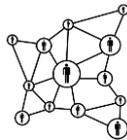
S&T and macroeconomic Forecast



Increasing efficiency and competitiveness



Identifying Global Challenges and searching for Grand Responses



Creating mix of policy instruments

## FORESIGHT 3E



Ethical



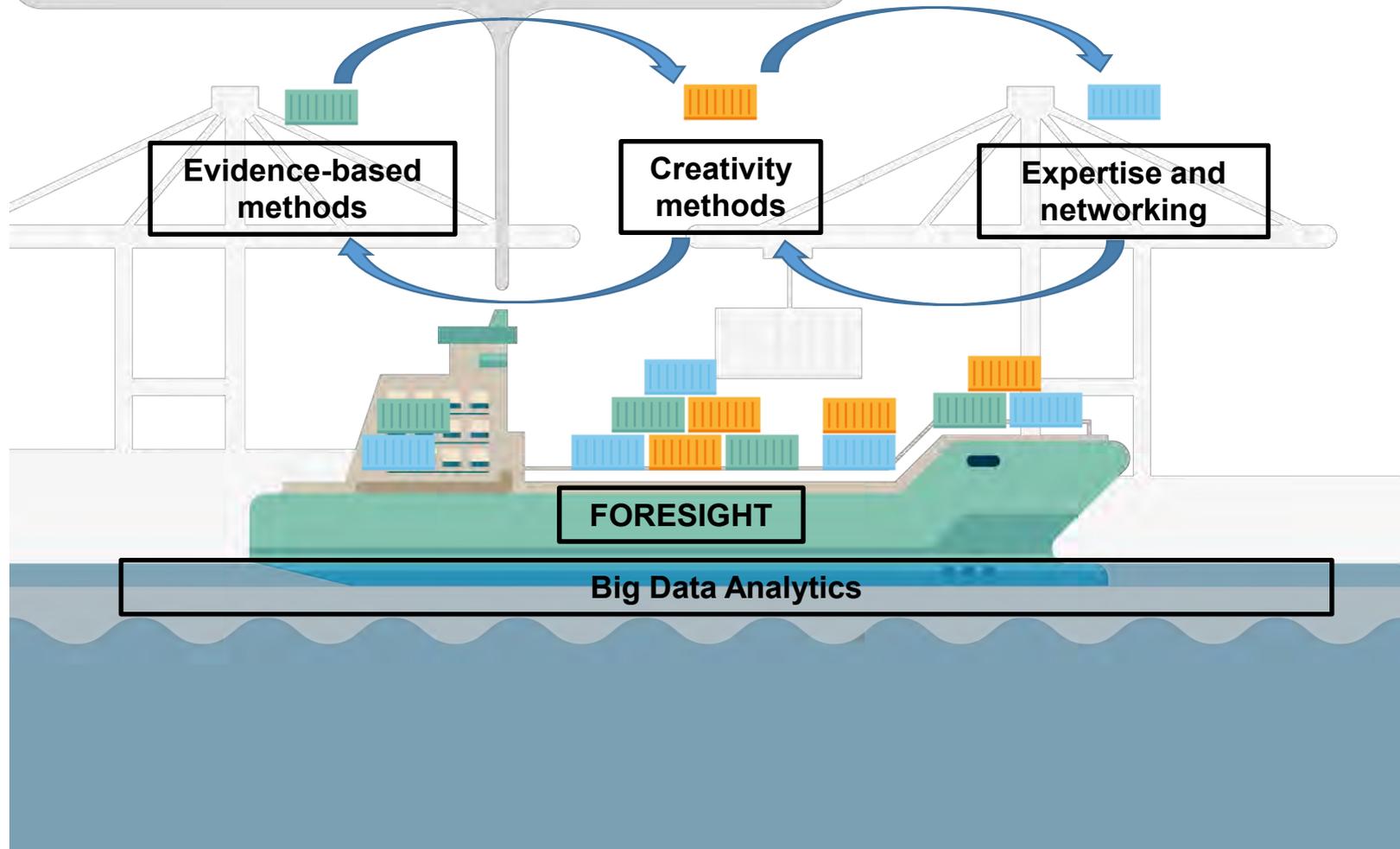
Ecological



Ecosystemic

# Foresight:

Blended methodology

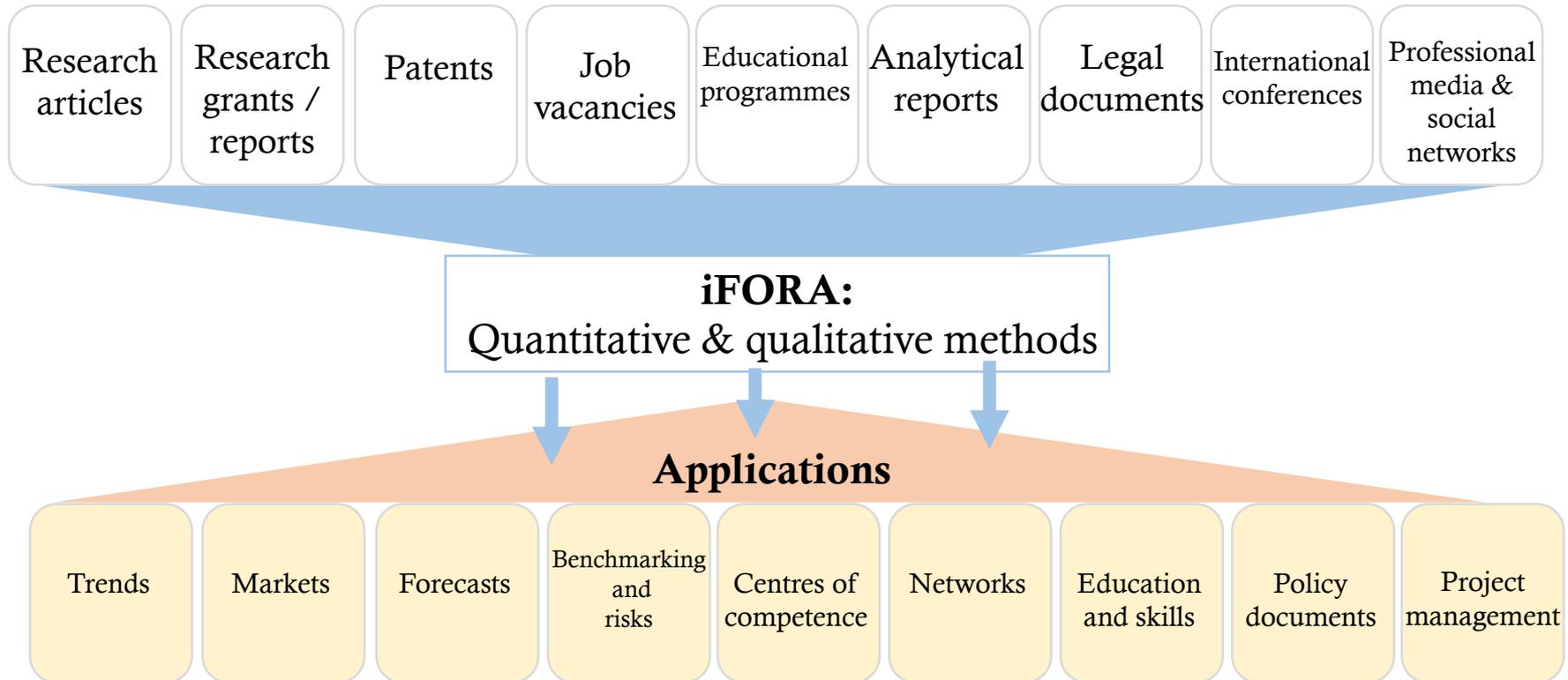




# Intelligent Foresight Analytics (iFORA) – a new step in research activities

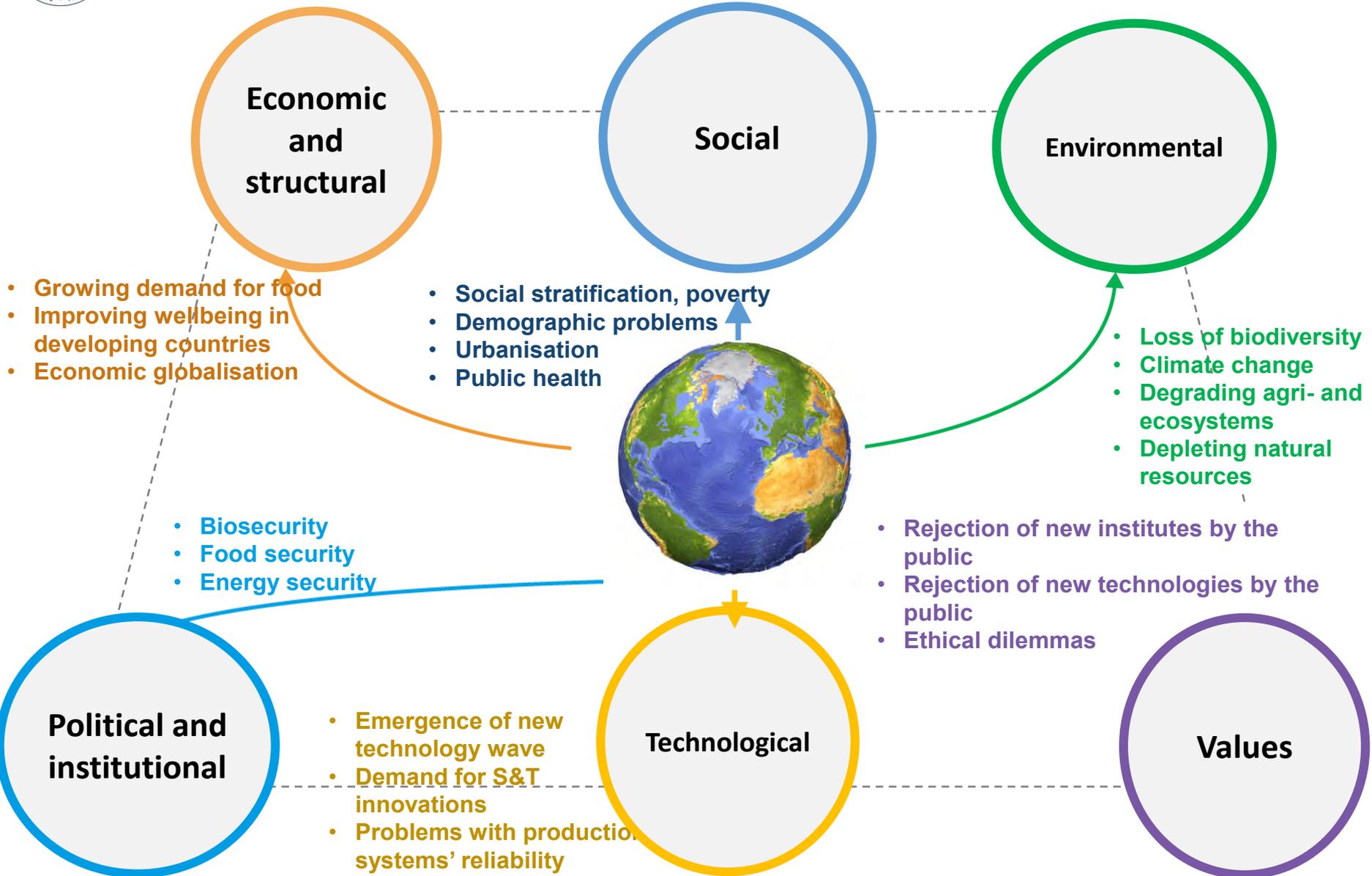
>350 Mln documents

≈ 30 000 documents uploaded daily





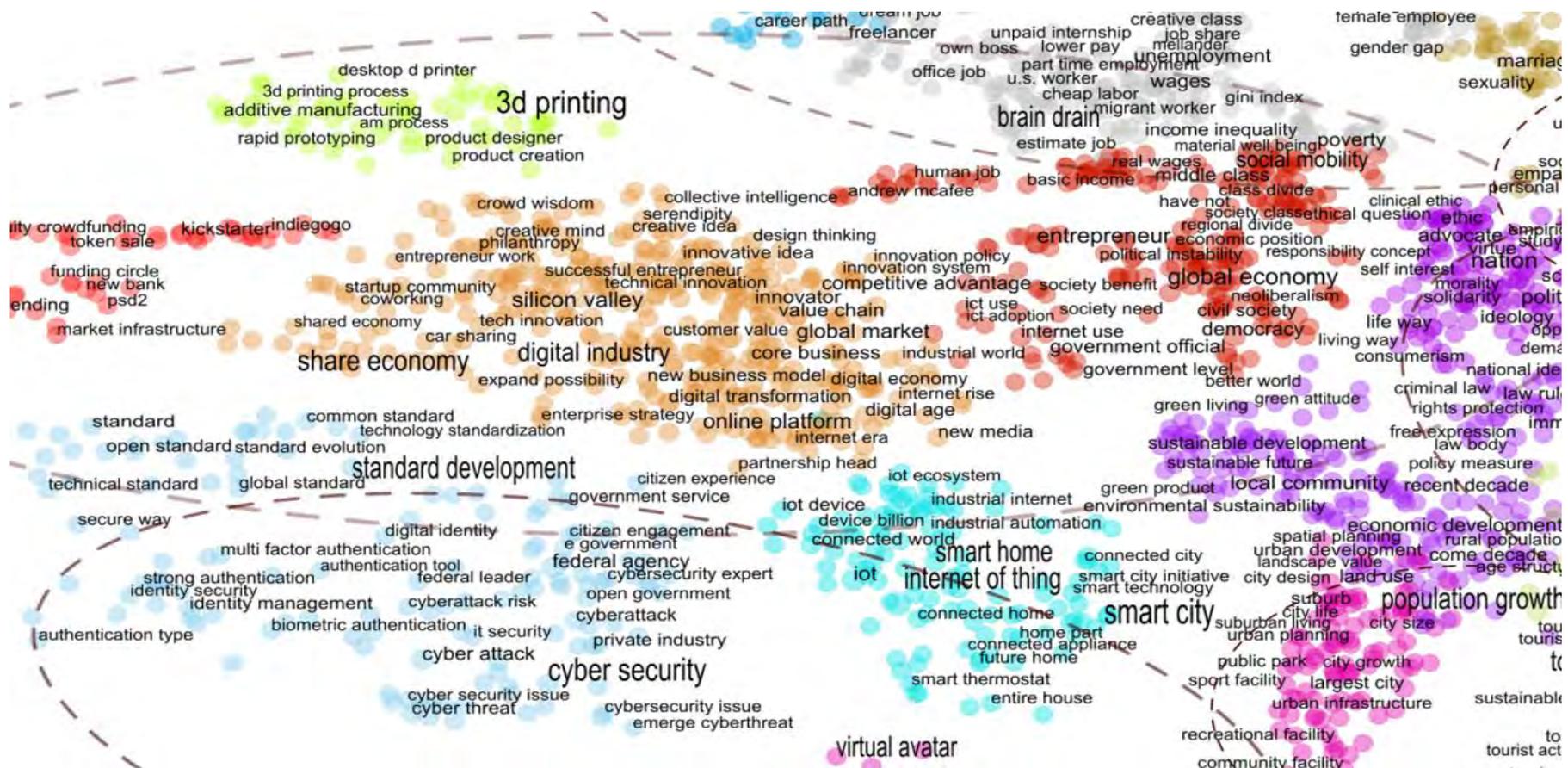
# Emerging global challenges: basic structure







# Sharing economy – a closer view from iFORA



Контуры областей выделены условно, некоторые элементы кластеров могут находиться за их пределами

Источник: iFORA ИСИЭЗ НИУ ВШЭ

Source: ISSEK HSE iFORA 2020

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# Global trends 2020-2025: a view from the prism of wild cards

Low oil prices  
Pandemic  
COVID 19  
prices



# Future of mobility: from MaaS to MaaP

basic hypothesis and key questions

Source: Chulok, 2020



## Moving to new production paradigm

→ accelerated, avalanche-like application of advanced production technologies and new materials, total customization and personalisation



## Transformation of global value chains

→ emergence of new ones, “elimination” of certain traditional segments, redistribution of profit margins between participants



## Moving to “action” economy

→ growing roles of “system integrators” - companies which provide turn-key solutions by quickly assembling them from the best available technologies adjusted to match specific demand



## Changes in the employment structure

→ triggered by the move towards the new production paradigm



## New education model

→ building “skills portfolios” based on expected demand by companies

## 1. WHEN, NOT WHAT

Portfolios of technological leadership have been completed: who will implement the first?

## 2. WHY, NOT HOW

Technocratic approach with KPI vs socio-humanist and mission oriented values of next generation of leaders

## 3. WHO: GEEKS VS ROUTINES

Growing social differentiation promoted by AI: one genius or millions of low qualified workers



# Policy: new agenda challenges

## External Challenges

- Selectivity (which fields we support?)
- Concentration (which institution or research team we support?)
- Sustainability (do we spend enough resources to reach the goal?)

## Expectations

Evidence-based analysis →  
“proofs” and transparency  
“What if ” questions → scenarios  
and modelling  
Weak signals of emerging  
disruptive trends → intelligence  
Prioritizing → detailed data  
Integration to policy → “smart”  
decisions

**Policy →**  
**FORESIGHT**

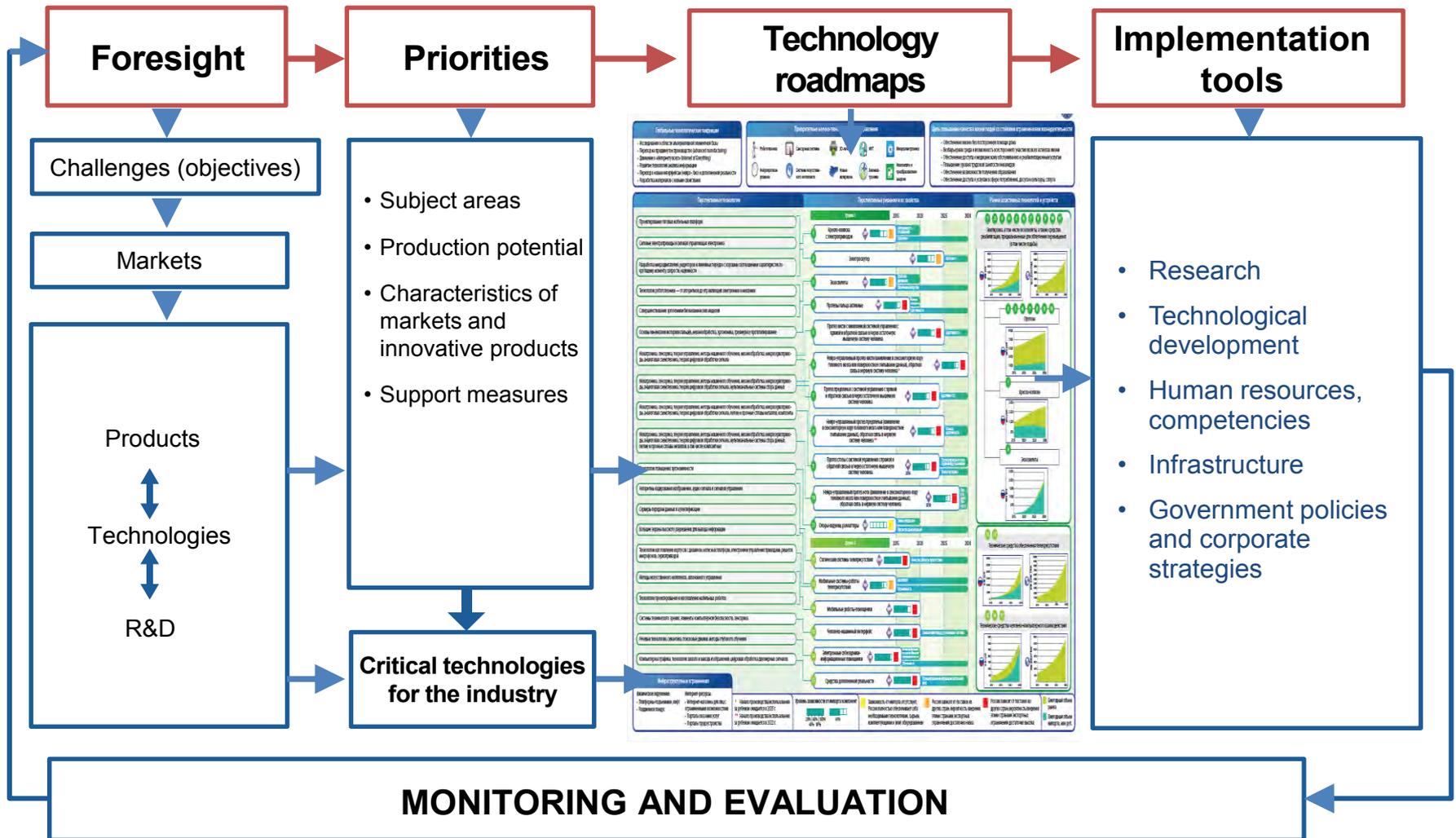
- Institutional framework (IPR, transparency, business climate, agile ecosystem, etc.)
- Providing mobility and substitution of resources
- Smart governance (bargain between “hard and soft” modes)

## Possibilities

Multidisciplinary and multicultural  
research  
Integration of quantitative and  
qualitative methods  
Big Data analytics  
Stakeholders engagement  
Communication and networking



# Blended Foresight for MaaS: from future into actions



Source: Chulok, 2019



**Thank you for your attention!**

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