

THE WORLD SUMMIT OF THE COMMITTEES OF THE FUTURE 2022

12 – 13 OCTOBER | HELSINKI | FINLAND



PARLIAMENT
OF FINLAND

OPENING

Mr. Matti Vanhanen

Speaker of the Parliament of Finland



PARLIAMENT
OF FINLAND

WELCOME AND INTRODUCTION OF THE SUMMIT

Mr. Joakim Strand

Chairman of the Committee for the Future

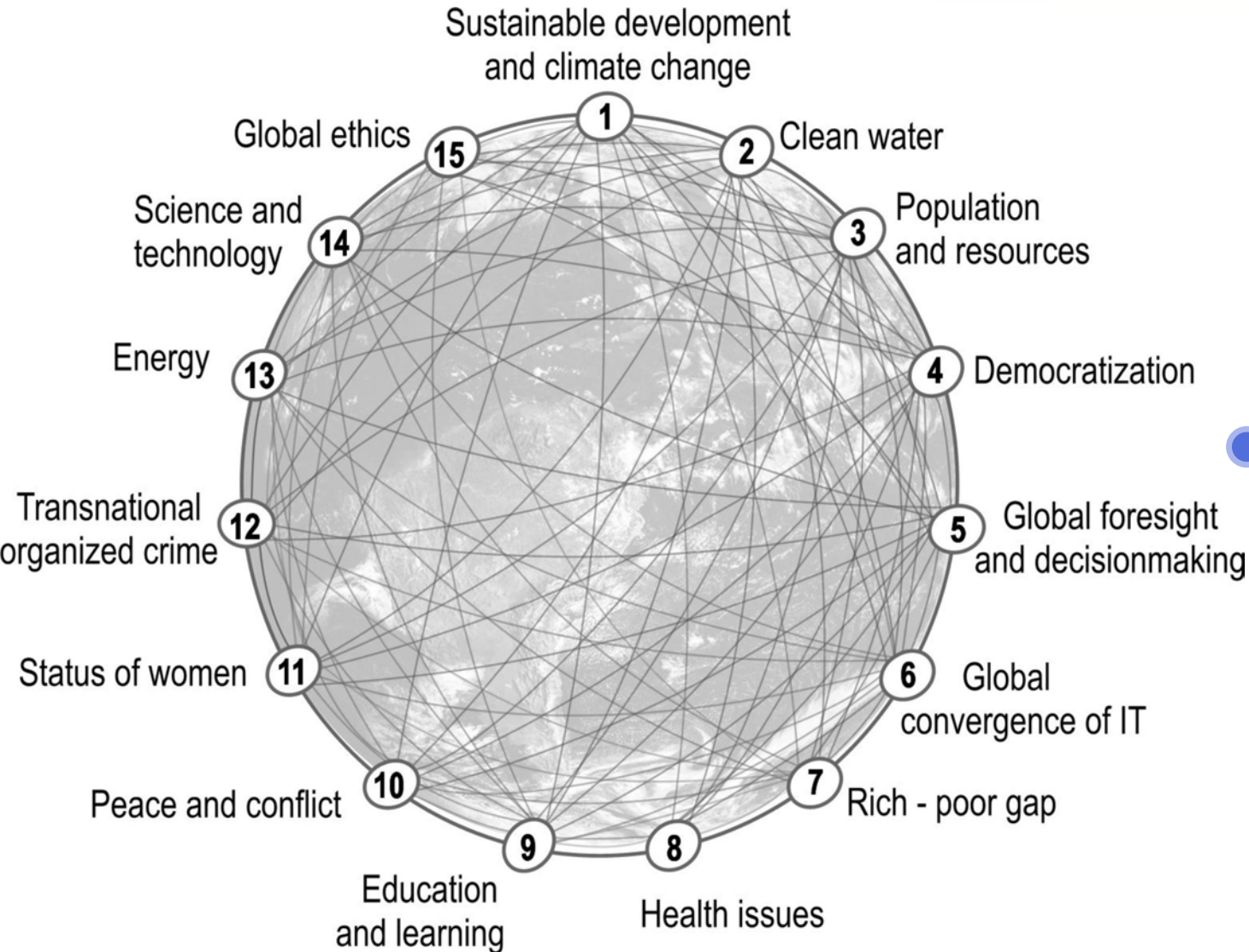


KEYNOTE SPEECH

Jerome C. Glenn
Executive Director
The Millenium Project



Agenda for the Future:

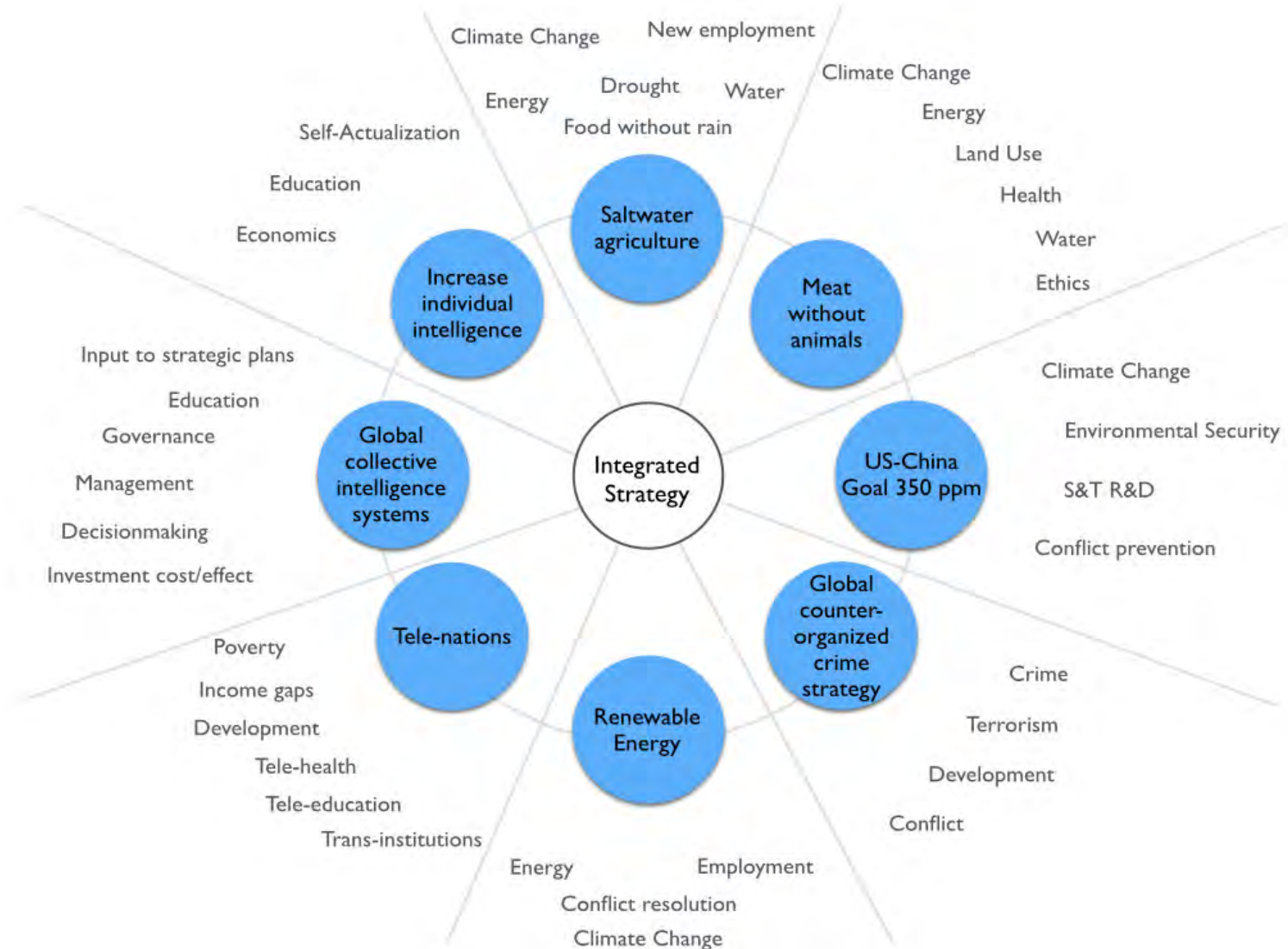


15 Global Challenges

Jerome C. Glenn, CEO

The Millennium Project

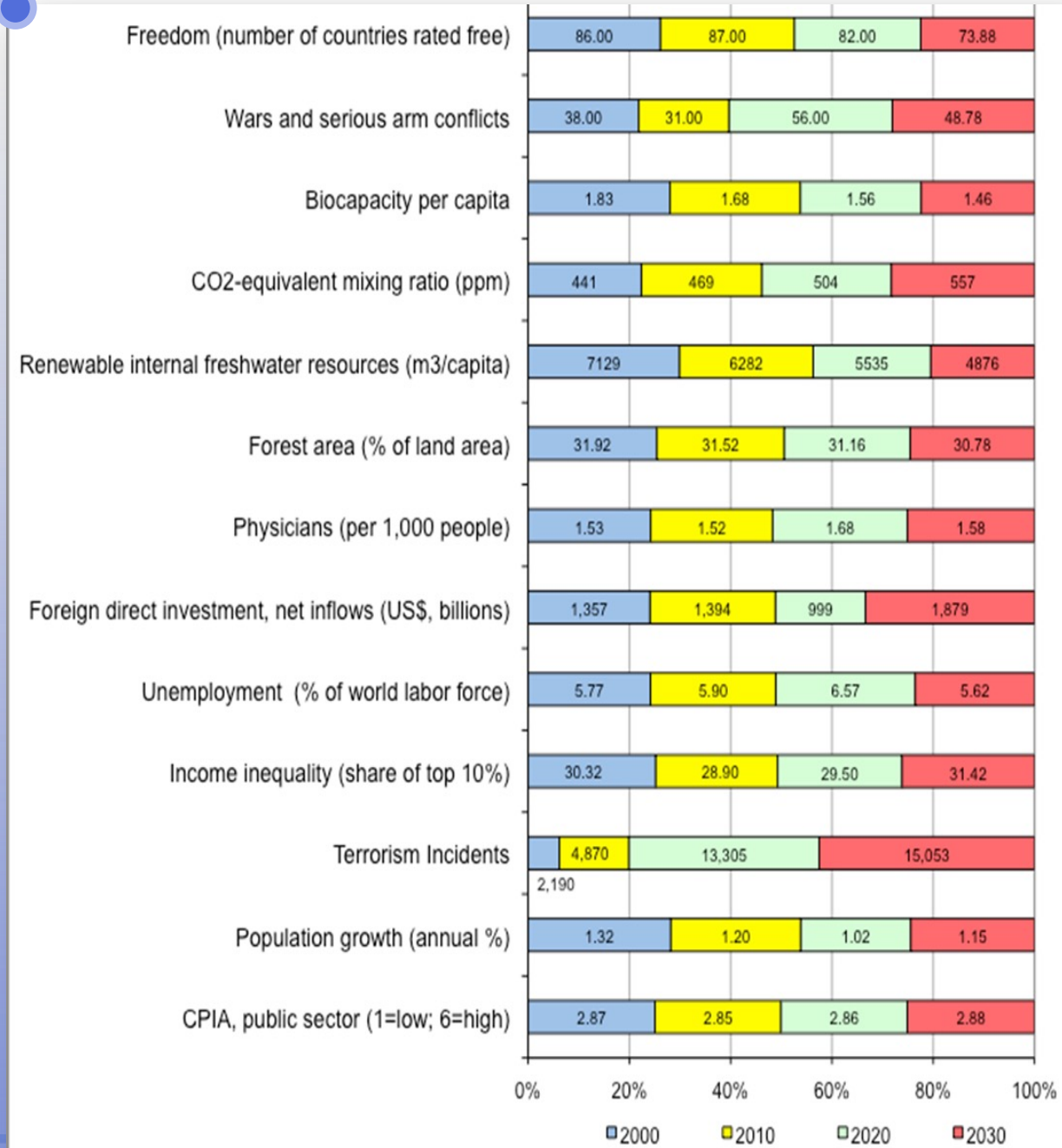
High Impact Strategies to Address Global Challenges



Where we are winning



Where we are losing or change is unclear



Some Insights from The Millennium Project



- 1 ***State of the Future Index*** shows that humanity is winning more than it is losing, but where we are losing is very serious.
- 2 Humanity has the answers to these problems, but “zero-sum” geopolitical power competitions prevent a global policy process for implementing these solutions.
- 3 We have to create synergetic relations among countries, corporations, academia, NGOs, and UN systems to address these problems and to achieve opportunities.
- 4 Covid has given the world its first global “time out” to re-think everything.
- 5 The pandemic, global warming, and future AI is forcing humanity to develop global policy processes and global governance systems.



**When the distinction between these two trends
becomes blurred, we will have reached the**

Post-Information Age

Conscious-Technology
(Post-Information Age)

Simplification/Generalization of History and an Alternative Future



Age / Element	Product	Power	Wealth	Place	War	Time
Agricultural Extraction	Food/Res	Religion	Land	Earth/Res	Location	Cyclical
Industrial	Machine	Nation-State	Capital	Factory	Resources	Linear
Information	Info/serv	Corporation	Access	Office	Perception	Flexible
Conscious-Technology	Linkage	Individual	Being	Motion	Identity	Invented

Potential Political Transition from Zero-Sum to Synergy



Transition from zero-sum political power to...

Synergies among governments, business, academics, NGOs, and international organizations...

Moving toward a “Self-Actualization Economy” and increasing merger of human consciousness and technology



Three Forms of Artificial Intelligence



- Artificial **Narrow** Intelligence

- Artificial **General** Intelligence

- Artificial **Super** Intelligence

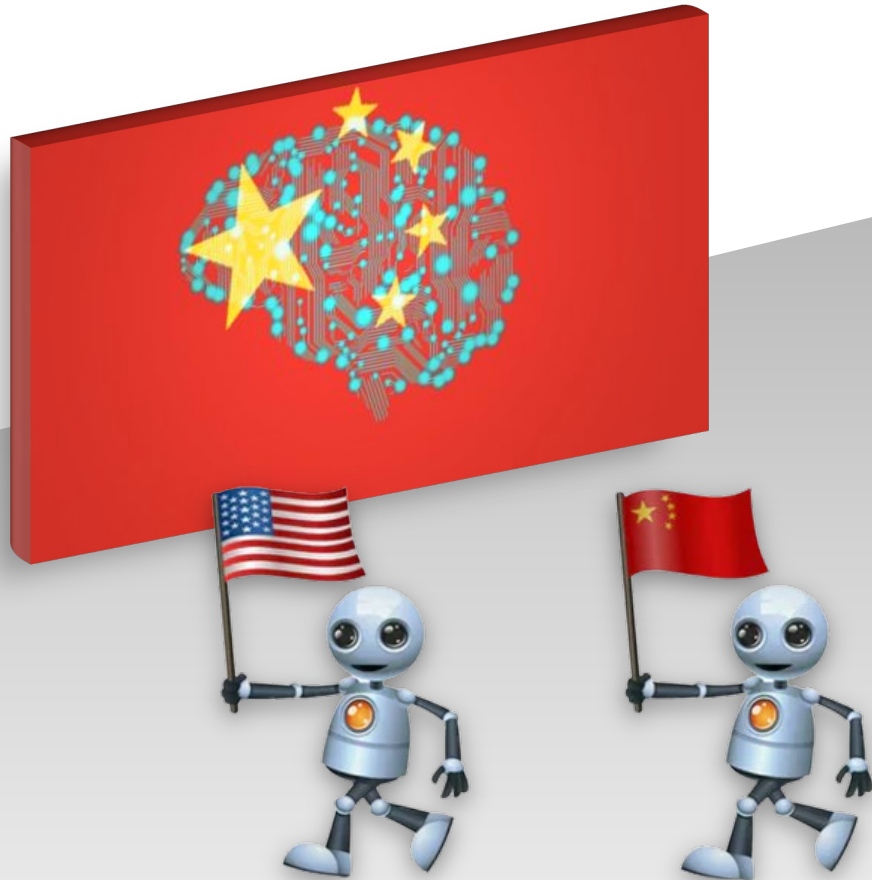
Artificial General Intelligence sets its own goals independent of human awareness and understanding



Who ever leads AI... rules the world - Putin



China Goal: Lead the World in AI by 2030



Human Brain Projects:

USA, EU, China

Artificial Brains:

IBM, Google, Facebook, Baidu,
Microsoft, Alibaba, Apple, Amazon

The Great AGI/Brain Race is on!

AI will Make This Combination Far More Powerful...



...Making Democracy
and Free Markets...

...An Illusion





Let's Avoid This

We may rush into creating AGI without making sure its initial conditions are “right.”



- **Examples of some potential “right” initial conditions:**
- Values agreed to for ANI (ISO, IEEE, OECD) and Asimov’s three laws of robotics.
- Massively complex simulation to test AGI’s alignment with values.
- Ability for humans to check why the AGI is doing something.
- Ability to distinguish between how we act vs. how we should act.
- Ability to determine why and how it failed or caused harm.
- Self-replication with human supervision.
- Cannot turn off its own off switch.
- Guard rails to catch unanticipated behavior that triggers evaluation or audit.
- Able to be continually audited and shut down if it fails the audit.

Humanity needs to think together about the future in an organized and accumulative way



- *The Global Futures Intelligence System*



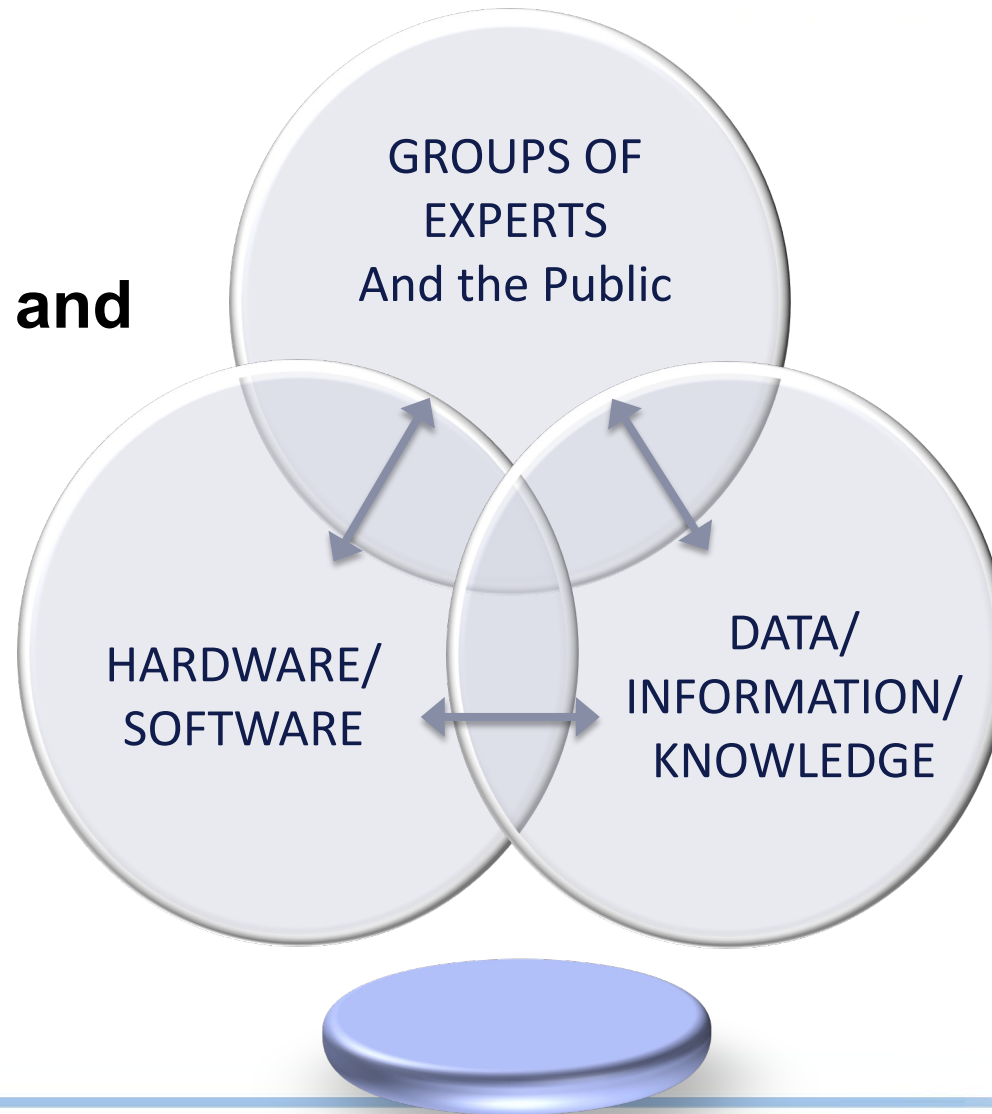
The UN Futures Lab
may create this with
all Committees
for the Future participating

How to Keep Track of All This?

Collective Intelligence Systems



Improving integration and synergies among...



Producing Collective Intelligence

We have the Future in our Hands



For More information:
Millennium-Project.org



For further information

www.millennium-project

Jerome.Glenn@millennium-project.org



COMMITTEE PRESENTATIONS

Morning session

Iceland

Finland

Lithuania

The Philippines

Paraguay

Chile

Uruguay



→ 10.00 – 10.15

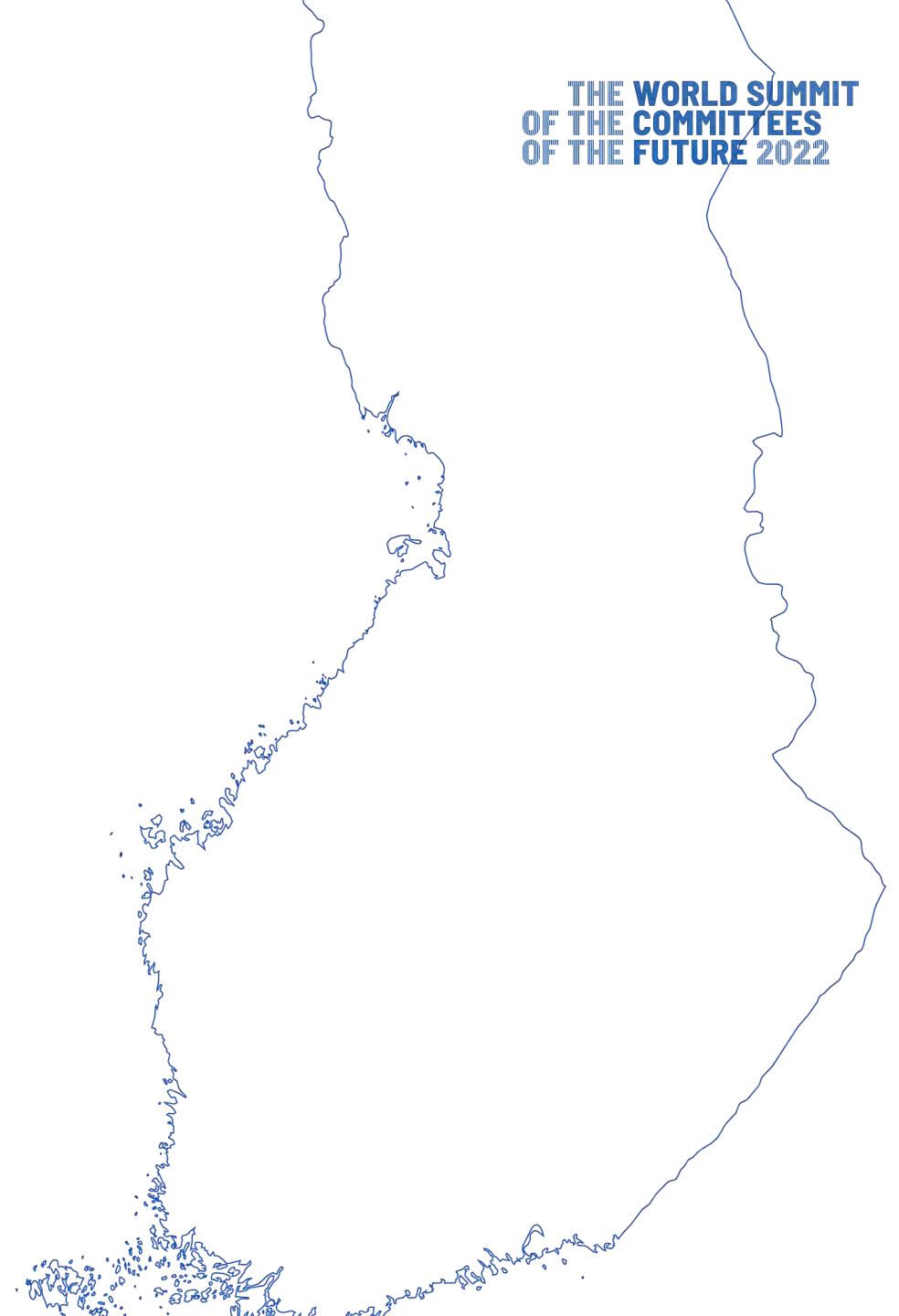
FINLAND

Ms. Mari Holopainen

MP, Committee for the Future

Mr. Sinuhe Wallinheimo

MP, Committee for the Future



THE WORLD SUMMIT
OF THE COMMITTEES
OF THE FUTURE 2022

COMMITTEE FOR THE FUTURE, PARLIAMENT OF FINLAND



PARLIAMENT
OF FINLAND

COMMITTEES' MISSION

To recognise issues with potentially significant influence to the future of Finland early enough that political actions can be taken

Image PAULIINA MÄKELÄ



PARLIAMENT
OF FINLAND

One of the Parliament's 17 standing committees

The
Committee for
the Future



Committee for the Future 2019 –



CHAIR

Joakim Strand
Swedish Parl.
Group



Katja Hänninen
Left Alliance



Antti Lindtman
Social
democr.



**Merja Mäkisalo-
Ropponen**
Social democr.



Kristiina Salonen
Social democr.



Marko Asell
Social democr.



Pirkka-Pekka Petelius
Green Parl.
Group



Mari Holopainen
Green Parl.
Group



Harry Harkimo
Liike Nyt
Movement

VICE CHAIR



Jussi Vihonen
True Finns
Party



Ari Koponen
True Finns
Party



Sari Tanus
Christian
Democr.



Ville Kaunisto
National
Coalition



Sinuhe Wallinheimo
National
Coalition



Arto Pirttilahti
Centre Party



Anu Vehviläinen
Centre Party



Pasi Kivisaari
Centre Party

Work of the Committee

Report on the Future and Agenda2030 report

- To comment & challenge government plans

Opinions

- For the other committees.
Recent examples:
NATO, space policy,
EU strategic foresight

Commissioned studies (Committee's publications)

- To explore themes of interest of Committee members
- To give substance to Committee reports and Committee opinions

New innovations for democratic processes

- Advocating phenomenon-based budgeting
- Creative space in the Parliament building C
- World Summit of the Committees of the Future



Knowledge-based decision-making

Futurists **Think tanks**
State research organisations
Ministries **Stakeholders** **NGOs**
University professors and researchers



Futures dialogue

Government's and
Parliaments Reports
on the Future



PARLIAMENT
OF FINLAND

Continuity in policy-making

The resolutions

Examples of resolutions from
the Committees Agenda 2030 report

The Government is to...

- Use indicators for measuring wellbeing that go beyond GDP
- Prepare a Positive Handprint programme for sustainable technologies



Example of committee work:

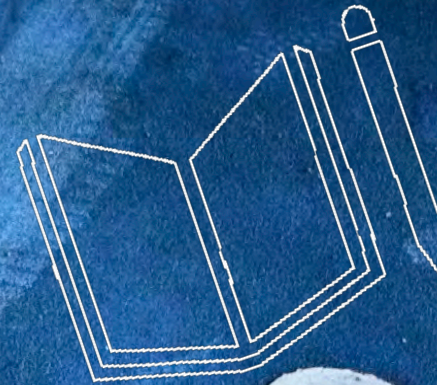
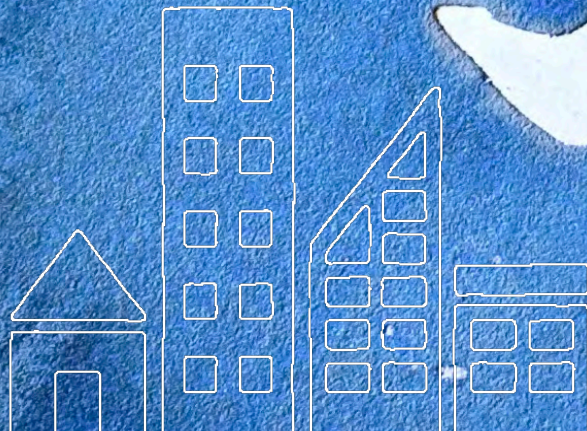
Potential of radical technologies
to advance sustainability

Promising technological
development

NO SILVER BULLET



PARLIAMENT
OF FINLAND



Example of committee work:

Using Art to understand
the Futures of Ageing



THANK YOU

The Committee for the Future's suggestions for five important future topics will be presented in tomorrow's Discussion session



→ 10.15 – 10.30

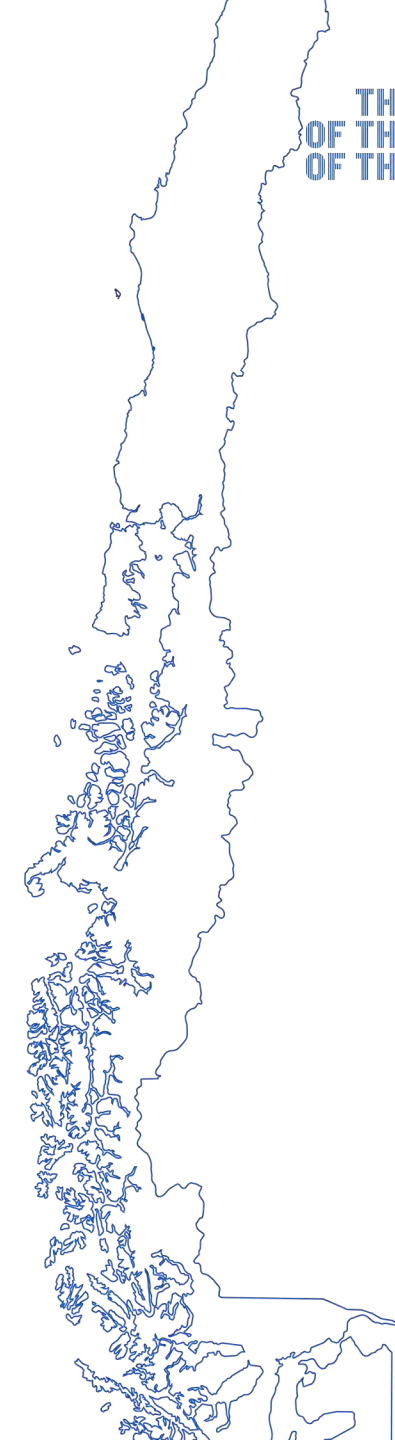
CHILE

Mr. Francisco Chahuan

President, Challenges of the Future Commission,
Senate of the Republic of Chile



PARLIAMENT
OF FINLAND



THE WORLD SUMMIT OF THE COMMITTEES OF THE FUTURE 2022

12 - 13 OCTOBER



THE COMMITTEE OF CHALLENGES OF THE FUTURE, SCIENCE, TECHNOLOGY, KNOWLEDGE, AND INNOVATION.

Senate of the Republic of Chile



WHAT
IS THE
→

“CHALLENGES OF THE FUTURE COMMITTEE”?

CREATED
IN 2011

IS ONE OF THE 24 PERMANENT LEGISLATIVE
COMMITTEES OF THE SENATE

Meet and discuss
possible future
challenges affecting
Chile and the world

Promote science,
technology, and
innovation

The Committee includes
as permanent guests
(National Science
Prizes; representatives
of academic institutions
of science, experts from
the public and private
sectors; representatives
of civil society)

It relies on the
Future Council
(a unit that responds
administratively to
this Committee) to
carry out activities
with citizens.

MILESTONES OF THE COMMITTEE



Neurorights (2021). The approval of the Constitutional Reform project modified our Constitution to the following: “protect the integrity and mental indemnity of the advances and capacities developed by neurotechnologies”



Ministry of Science. In 2017 the Executive presented the law that created the Ministry. The legislative work addressed the debate on the bill presented by the Executive in March 2017, which sought to create the Ministry of Science, Technology, Knowledge, and Innovation of Chile, which began its official functions in October 2019.



National policies. Development of documents that, once submitted to the Executive, have become national policies, such:

- **Artificial Intelligence and the urgent need to develop a strategy on the matter**
- **Initiative to promote Green Hydrogen**
- **Aerospace Program.**

WORKING TABLES

Summarized in the book "Chile tiene Futuro, desde sus Territorios" (From its Territories, Chile has a Future)

- Satellite space program for Chile
- Artificial Intelligence Initiative: The urgency of developing a national strategy
- Initiative to boost Green Hydrogen in Chile
- Neurorights
- Research policy
- Genomics
- Clinical fields
- Data Center
- Future Scenarios
- Cybersecurity and digital platforms
- Aquaculture of native species
- Sustainable and healthy food systems
- Future of forestry for a sustainable Chile
- Future of work
- Green mining

CURRENT WORKING TABLES

- **Cybersecurity**, has over 140 professionals, including academics, government, military, and the productive sector.
- **Foresight and strategy**, compromise more than 80 professionals, including former senators, former state ministers, academics, the public sector, and research centers.
- **Ecolabeling and greenwashing**, is currently composed of more than 20 professionals from the public, private, and NGO sectors.
- **Health of the future** comprises more than 80 professionals from the public and private sectors, academia and NGOs.

FUTURE CONGRESS (CONGRESO FUTURO)



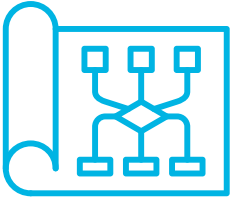
- Initiative, **created in 2011** and supported by the Senate - through the Future Challenges Committee
- It is **the leading platform** for disseminating knowledge, science, technology, and innovation (STKI) in Latin America that brings together, throughout the year, the brightest minds in the world to connect Chile with present and future challenges.
- Fourth most crucial scientific dissemination event in the world, is the only one organized by a National Parliament and stands out for being a completely free event that cedes all copyrights for its reproduction in social networks and other media.
- In its 11 versions, Congreso Futuro and its activities are positioned in the STKI ecosystem at national and international levels, thanks to the joint work of the National Congress, through the Senate of Chile, and the collaboration of the Government of Chile, the Ministry of Science, the Chilean Academy of Sciences, universities, research centers, embassies, foundations, NGOs, and public and private institutions, among which the Fundación Encuentros del Futuro, FEF, stands out.
- This meeting, where the speakers (in their face-to-face format) can interact directly with the audience and peers, has brought together, up now, more than 800 renowned national and international speakers in talks (19 Nobel Laureates), presentations, debates and other forms of dissemination of science, knowledge and future.
- The next version of the Future Congress will be held from **January 16th to 20th, 2023.**

EVENTS THAT HAVE GROWN OUT OF CONGRESO FUTURO



EVENTS THAT HAVE GROWN OUT OF CONGRESO FUTURO





PROJECTS UNDER DISCUSSION IN COMMITTEE

- Bill to regulate digital platforms.
- Bill amending Law No. 20.120, on scientific research on human beings and their genome and forbidding human cloning, regulate the edition of the human genome and criminalize the offenses indicated therein.

MEMBERS OF THE COMMITTEE



- President of the Challenges of the Future Committee.
Senator Francisco Chahuán (member of the Commission since its founding in 2012) (fchahuan@senado.cl)



- **Senator Ximena Rincón** (xrincon@senado.cl)



- **Senator Ximena Órdenes** (xordenes@senado.cl)



- **Senator Luciano Cruz-Coke** (lcruzcoke@senado.cl)



- **Senator Kenneth Pugh** (kpugh@senado.cl)

THANKS!

THE WORLD SUMMIT
OF THE COMMITTEES
OF THE FUTURE 2022



→ 10.30 – 10.45

ICELAND

Mr. Logi Einarsson

Chairman of the Future Committee,
Parliament of Iceland



PARLIAMENT
OF FINLAND





The Future Committee

Parliament of Iceland

Logi Einarsson, chairman

The Predecessor

The Prime Minister's office

- ❖ A Future Committee elected on June 12, 2018.
- ❖ Composed of eleven members and all parliamentary parties are represented.
- ❖ The aim was to analyze the development of future mega trends that will shape the society with focus on technological, environmental and demographic developments.
- ❖ The committee was relocated to the Parliament 2021.



The Future Committee

Parliament of Iceland

- ❖ Elected December 2nd, 2021
- ❖ Composed of eleven members and all parliamentary parties are represented.
- ❖ A minimum of five MPs from opposition parliamentary parties are members of the committee.
- ❖ MPs from the ranks of government and opposition parties hold the chairmanship and vice-chairmanship alternately for one year at a time.



Members of the Future Committee

Mr. Logi Einarsson, chair (The Social Democratic Alliance)

Ms. Lilja Rannveig Sigurgeirsdóttir, deputy chair (Progressive Party)

Mr. Ágúst Bjarni Garðarsson (Progressive Party)

Ms. Halldóra Mogensen (Pirate Party)

Ms. Hildur Sverrisdóttir (Independence Party)

Mr. Jakob Frímann Magnússon (People's Party)

Mr. Njáll Trausti Friðbertsson (Independence Party)

Mr. Orri Páll Jóhannsson (Left-Green Movement)

Mr. Sigmar Guðmundsson (Liberal Reform Party)

Mr. Sigmundur Davíð Gunnlaugsson (Centre Party)

Ms. Steinunn Þóra Árnadóttir (Left-Green Movement)



Main tasks of the Committee

Iceland's challenges and opportunities in the future in terms of:

- ❖ Technological change.
- ❖ Long term Environmental change.
- ❖ Demographic changes.
- ❖ Automation and AI.

Other Committees of the Parliament may request its opinion on parliamentary bills.



First steps



Future Committee
of the Prime
Minister's office



Course on Strategic Foresight



Visit to the Committee
for the Future at the
Parliament of Finland
and the Government
Foresight Group



Virtual meeting with the
Committee for the Future
at the Parliament of
Lithuania

Next steps



Working plan for
2022-2023



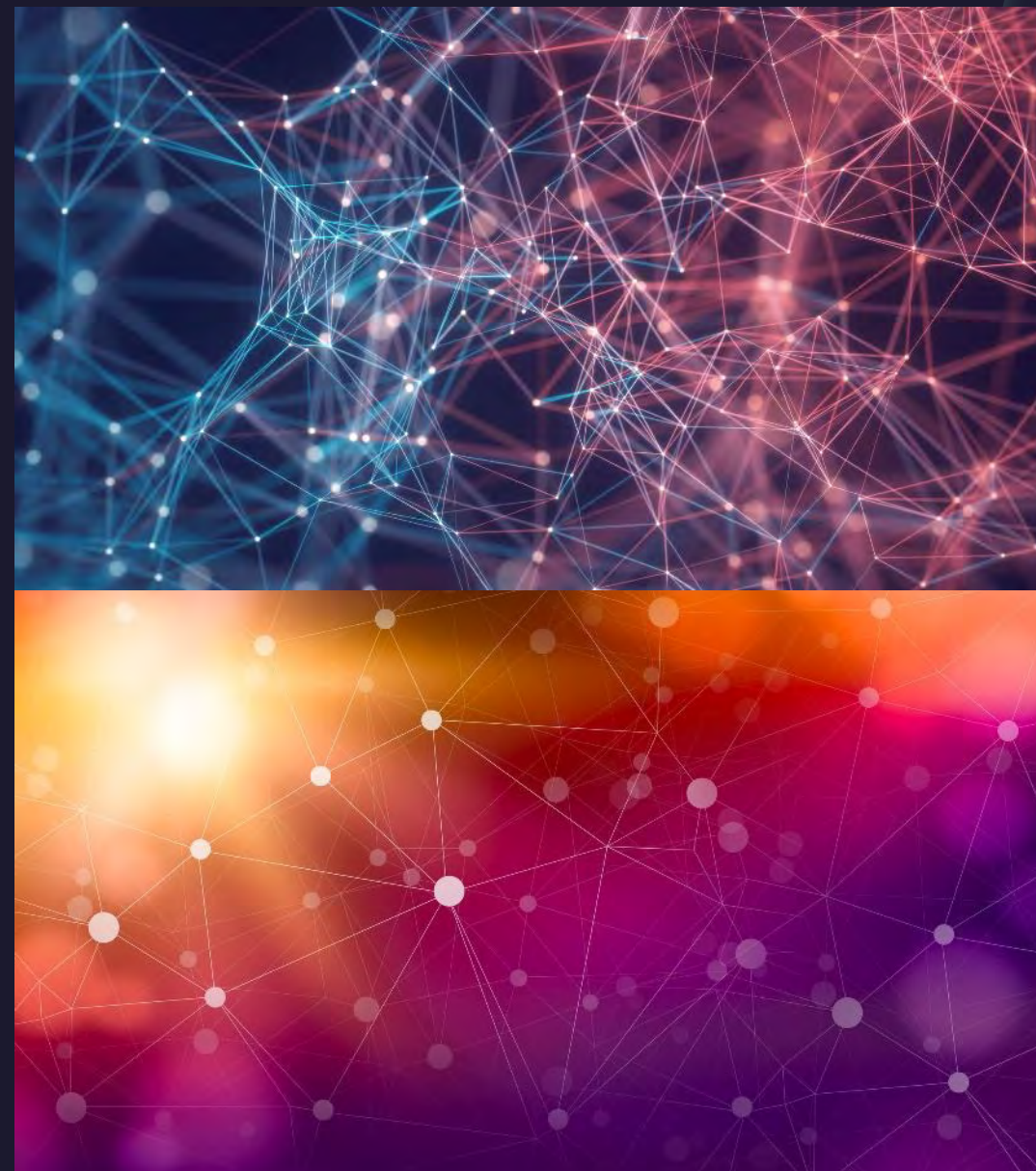
Think tank
*How can technological
changes lead to a sustainable
and fair transition and
prosperity?*



Conference
Introduction on Future Scenarios



Logi Einarsson, chairman
Future Committee
Parliament of Iceland
www.althingi.is



→ 10.45 – 11.00

LITHUANIA

Mr. Raimudas Lopata

Chair of the Committee for the Future
of the Seimas of the Republic of Lithuania



Role of Parliament in Anticipatory Governance

Committee for the Future of the Seimas, Lithuania
Helsinki, 12 October 2022

Paradigm shift in public governance

- Uncertainty as new normal
 - Technology change; pandemics; migration; confrontation; energy; inflation
- Public governance
 - Scaling up the use of evidence
 - From planning-and-control to anticipation and agility
- Challenges
 - Same culture across all branches of the governance
 - Openness and collaboration





Concept of the Committee for the Future

- The Committee for strategic issues and structural reforms
- Responsibility for the long-term national strategy
- Scope of the Law on Strategic Governance
- Not only response to initiatives of the Government but also launching own initiatives for new policy developments important for the future

Leverage

- The Seimas established the **Committee for the Future (CFF) on 23 December 2020**.
- The Statute of Seimas provides that the composition of the CFF is based on the principle of proportional representation of the Seimas political groups.
- Members of other committees of the Seimas may become members of the CFF.
- Chairpersons or Deputy Chairpersons of other committees and political groups are expected to become members of the CFF.
- The CFF now has **19 MPs representing all parliamentary political groups**. The CFF is the second biggest committee at the Seimas including members of 13 parliamentary committees out of 16.

Committee members



Raimundas
LOPATA
Chair



Matas
MALDEIKIS
Deputy Chair



Lukas
SAUVICKAS
Deputy Chair



Kasperas
ADOMAITIS
Member



Zigmantas
BALČYTIS
Member



Kristijonas
BARTOŠEVIČIUS
Member



Rasa
BUDBERGYTĖ
Member



Aidis
GEDVILAS
Member



Ligitė
GIRSKIENĖ
Member



Asta
KUBILIENĖ
Member



Paulė
KUZMICKIENĖ
Member



Laima
NAGIENĖ
Member



Andrius
NAVICKAS
Member



Mėnika
OSMIANSKIENĖ
Member



Liuda
POČIUNIENĖ
Member



Viktoras
PRANCKIETIS
Member



Arūnas
VALINSKAS
Member



Valdemaras
VALKIŪNAS
Member



Kestutis
VILKAUSKAS
Member

Areas of activity

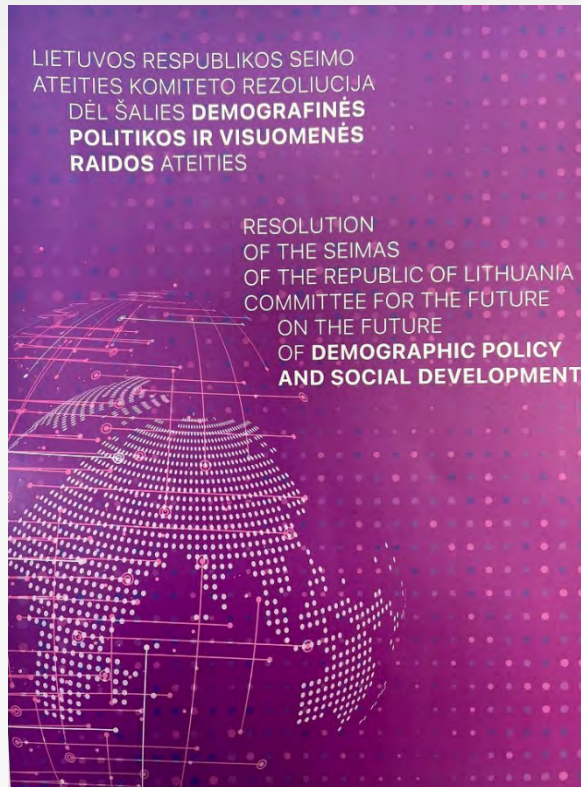
- Article 58¹ of the Statute of the Seimas provides for areas of activity of the CFF:
 - Long-term visioning and modelling of the future of the state and society
 - Transformation of the economy; innovation; future technologies
 - Demography, migration and societal transformation
 - Advance of public governance
 - Strategic reforms



Modus operandi

- Official meetings – each week, approx. 12 per session
- Supporting fora – every 2 weeks, approx. 6 per session
- Resolutions of the Seimas prepared by the CFF
- Official reports to the Seimas
- Resolutions of the CFF
- Working groups
- Conferences



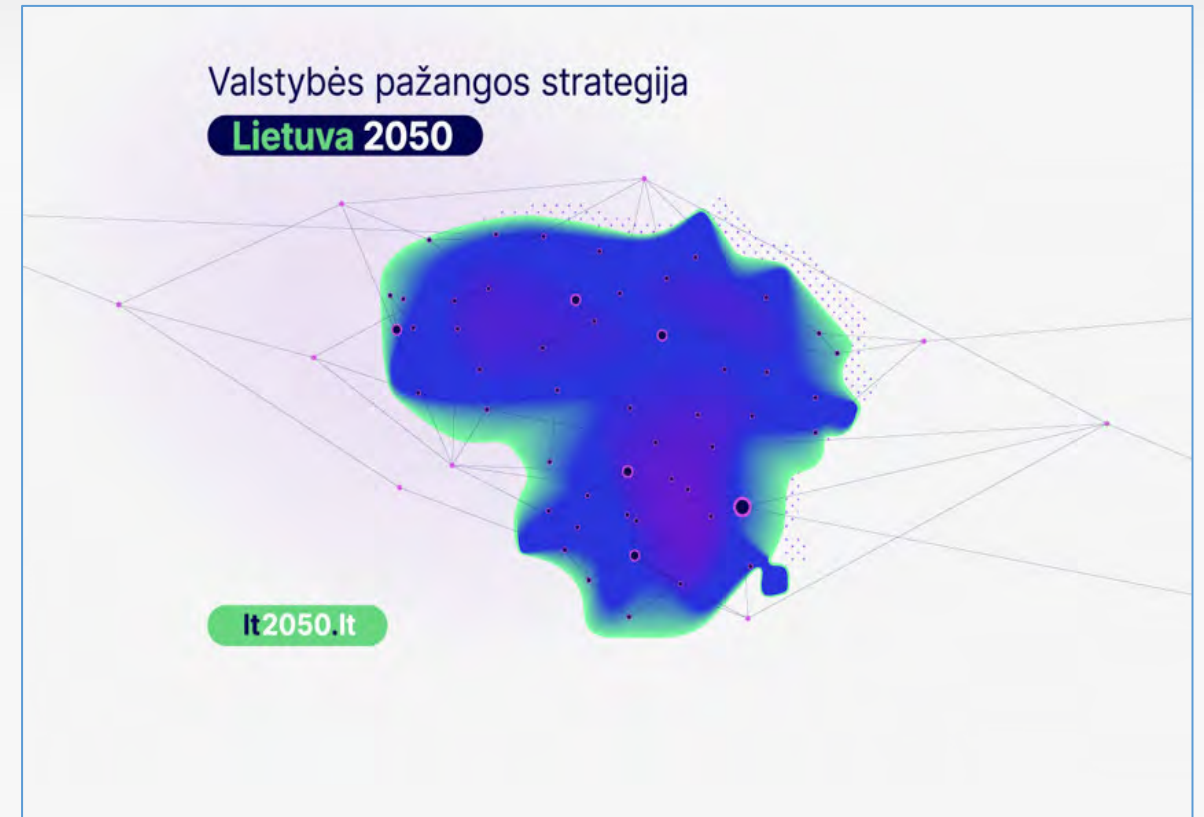


Setting the direction

- **The Seimas Resolution of 7 December 2021 on future digital transformation and digital sovereignty in Lithuania**
- **The Seimas Resolution of 18 February 2022 on the future of demographic policy and social development**
- Amendment of the legislation on strategic governance, strengthening of the pillar of futures thinking
- Dozens of proposals in the CFF's resolutions

State Progress Strategy 'Lithuania 2050'

- First long-term national strategy based on foresight
- Co-developers: Government; CFF; Vilnius University; State Development Council
- Manifold discussions with politicians, experts, stakeholders and general public
- Scenarios, integral vision and roadmaps tbc
- Approval by the Seimas in the 1st half of 2023



Green and digital futures

- Coordinating national policies of Twin Transition – European Green Deal and Digital Transformation
- Amplifying use of evidence supplied by the EU (3rd Strategic Foresight Report)
- Focus on the technology policy: Big Data, AI, Quantum, Photonics and Biotech
- Discussing synergies between Smart Specialisation and Recovery & Resilience Facility

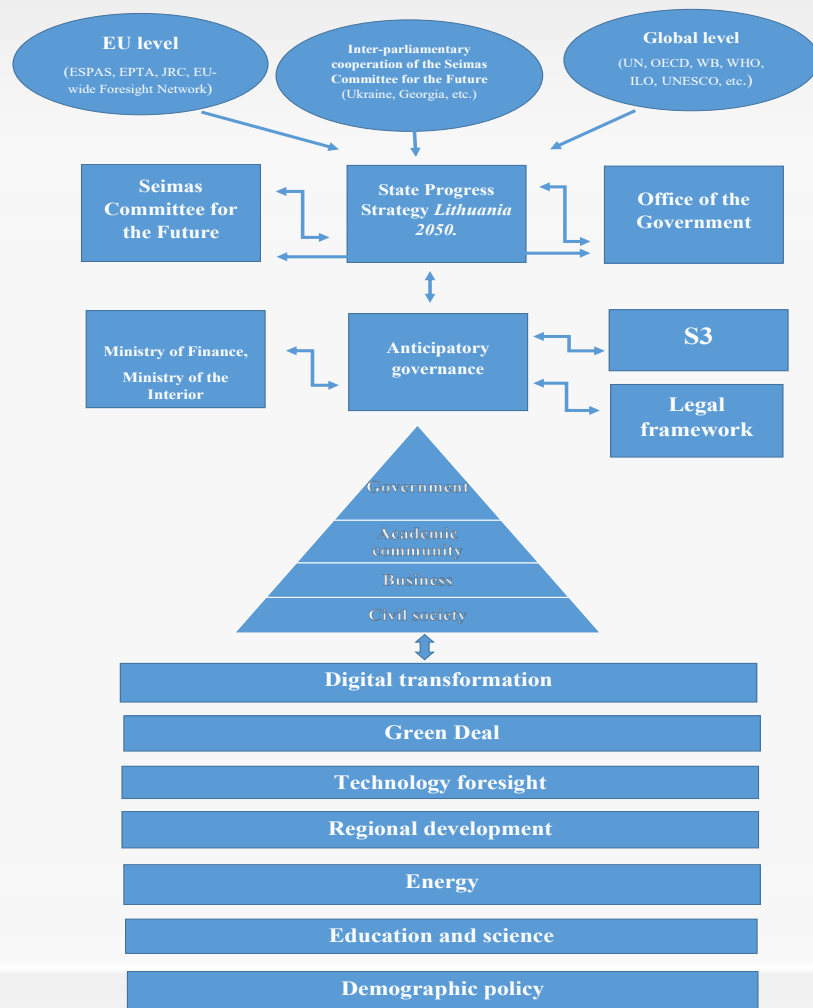


Supporting fora

- Future of Democracy
- Development of Civil Society
- Geopolitical Tensions and Scenarios
- Universal Basic Income: Pros and Cons
- Future Pedagogy
- Regulation of AI



LITHUANIA'S FUTURES ECOSYSTEM



Ecosystem of anticipatory governance

- New Law on Strategic Governance, 2021
- Introduction of foresight
- Data- and evidence-driven
- Network of collaboration in progress

Future directions

- Promoting anticipatory governance across government
- Strengthening knowledge base of futures thinking: parliamentary analytical capacity, big data analytics, connecting with science, using international evidence
- Technology foresight: 'national EPTA'
- European networking: EU 'Ministers for the Future', relations with the EP, ESPAS, JRC
- Global networking: Future of the World, Vilnius, 12-14 May 2023



Thank you!

E-mail: ateitieskt@lrs.lt

→ 11.00 – 11.15

PARAGUAY

Mr. Sebastian Garcia

Chairman of the ICT Committee and Special Committee
for the Future for Mid and Long-term Strategic Affairs,
Chamber of Deputies of Paraguay





Special Committee For The Future

for Mid and Long term Strategic Affairs



**HONORABLE CÁMARA
DE DIPUTADOS**
CONGRESO NACIONAL

"Sesquicentenario de la Epopeya Nacional: 1864 - 1870"



RESOLUCIÓN N° 3154

QUE CREA LA COMISIÓN ESPECIAL DEL FUTURO EN LA
HONORABLE CÁMARA DE DIPUTADOS PARA EL TRATAMIENTO DE
ASUNTOS ESTRATÉGICOS A MEDIANO Y LARGO PLAZO

LA HONORABLE CÁMARA DE DIPUTADOS DE LA NACIÓN

RESUELVE:

- Artículo 1º.- Crear una Comisión Especial del Futuro en la Honorable Cámara de Diputados, para el tratamiento de asuntos estratégicos a mediano y largo plazo, asesorar y acompañar la planificación de los países en la etapa post-pandemia con un protagonismo en temas tecnológicos, de innovación y de sociedad.
- Artículo 2º.- Establecer que esta Comisión Especial del Futuro, estará integrada por representantes de las diferentes bancadas que conforman la Honorable Cámara de Diputados.
- Artículo 3º.- Disponer la comunicación de la presente Resolución al Ministerio de Relaciones Exteriores para la remisión de un informe sobre su existencia y finalidades a la Misión de la República del Paraguay ante la oficina de la Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO).
- Artículo 4º.- Establecer que esta Comisión Especial del Futuro, funcionará dentro de la Comisión Permanente de Asesoramiento de Ciencia y Tecnología de la Honorable Cámara de Diputados.
- Artículo 5º.- Comunicar a quienes corresponda y cumplido archivar.

DADA EN LA SALA DE SESIONES DE LA HONORABLE CÁMARA DE
DIPUTADOS DE LA NACIÓN, A LOS TREINTA DÍAS DEL MES DE
MARZO DEL AÑO DOS MIL VEINTIDÓS.


Arnaldo Andrés Rojas Feris
Secretario Parlamentario




Pedro Milana Rodríguez
Presidente
H. Cámara de Diputados

Created on March
30th 2022
(Resolution 3154)

To Focus on strategic issues and major discussions that must take place in Paraguay for upcoming challenges, from a legislative perspective, bearing in mind current contexts and thoughts on how major structural changes could be driven through public policies that go beyond a 5-year Constitutional legislative term.



Opening Session: May 26th 2022

Integrated by members of multiple political parties represented in Paraguay's Lower Chamber.

It took place in the form of a public hearing, with representatives from the Private Sector, SMEs and Entrepreneurs' Associations, representatives of public and private universities, representatives of Secondary School Student Councils, and several civil society organizations.

Ministries and Directors from the Executive Branch, including the Director of National Innovation Strategy also attended the hearing





Opening Session: May 26th 2022

Major issues that came up from the session concerns especially:

- ▲ Education for the future
- ▲ Future of health services
- ▲ Employment and opportunities for the Future

After Covid-19 lessons,
biggest challenge is not to move backwards!!!





The Future of Democracy

A public initiative that collected more than 80 thousand signatures presented the first draft bill to digitalize the Constitutional Popular Initiative.

The draft bill was officially presented and discussed in an open committee session on June 2022.

The bill was passed by Congress on September 2022.





The Future of Cities: Asunción, Paraguay

The Special Committee is currently setting up sessions that will discuss The Future of Asunción (Paraguay's Capital City), bringing together both Municipal and executive authorities, as well as representatives of the Private sector and Civic Society, to discuss the implementation of urgent projects in Asuncion.

First incentives for Asuncion's City Center's urban revitalization expected to be published early 2023.



Urgent challenges

Paraguay shows great potential, as an economy that manages to grow in a very challenging regional context.

However, Paraguay's biggest challenges are still related to building stronger and reliable institutions, strengthen the value of democracy, and focus on reducing its inequality breach.

We also face a very serious challenge concerning the need to rethink how politics and politicians adapt to regain credibility and achieve proper representation with direct participation in decision-making.



Committee's challenge: Talk about the future

Paraguay, for example, has a National Innovation Strategy in place, but with little political relevance.

The need to articulate a proper roadmap and methodology between sectors that coordinate and anticipates upcoming challenges.





Upcoming sessions: **Future of Business in Paraguay**

Paraguay shows signs of great potential in terms of its business environment and possibility for growth. More recently, several initiatives have been passed in regards to:

- Electronic citizenship
- Digitalization of public
- Financial inclusion
- Investment attraction
- Creating new businesses

Plans are in place for sessions to discuss the Future of Business in Paraguay, with collaboration from Paraguay's Venture Capital Association.



“Our greatest challenge in political discourse is to proactively evaluate, anticipate, and plan for future generations, rather than limiting political discussions only to upcoming elections”



**THANK YOU
VERY MUCH!**

**¡MUCHAS
GRACIAS!**

AGUIJE!



COMISIÓN
DEL FUTURO



**HONORABLE CÁMARA
DE DIPUTADOS**

→ 11.15 – 11.30

THE PHILIPPINES

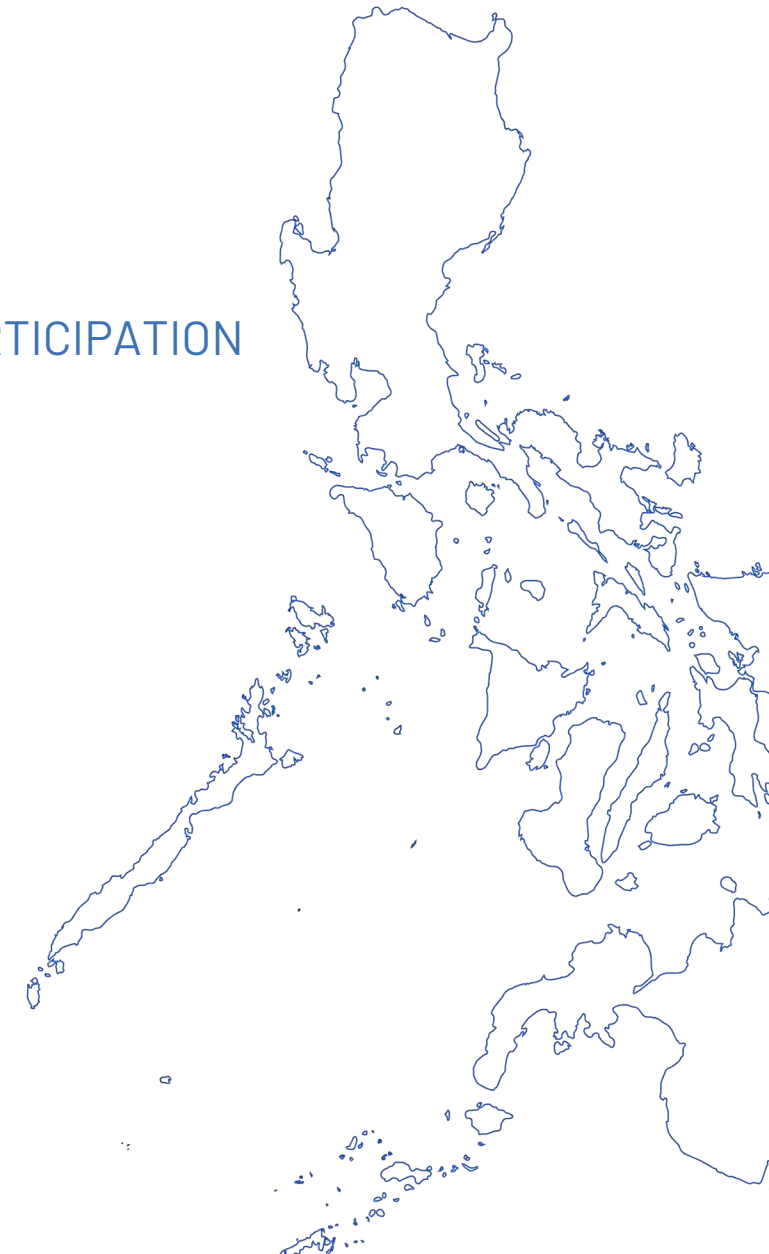
VIRTUAL PARTICIPATION

Mr. Pia Cayetano

Chair of the Committee of Sustainable
Development Goals, Innovations and
Futures Thinking, Senate of the Philippines



PARLIAMENT
OF FINLAND



WORLD SUMMIT OF THE COMMITTEES OF THE FUTURE

Senator **Pia S. Cayetano**

- Philippine legislator
- Chairperson of the PH Senate's
Committee on Sustainable Development
Goals, Innovation, & Futures Thinking

The first Senate Committee on Futures Thinking was established in 2019



The Committee's **OBJECTIVES:**



To TRACK

where we are
with our SDGs



To PREPARE

for various futures



To SHIFT

our mindset to
Futures Thinking, as
major policy reform

Virtual Hearings on **Futures Thinking:**



Dr. Peter Bishop
(Executive Director, Teach
the Future)



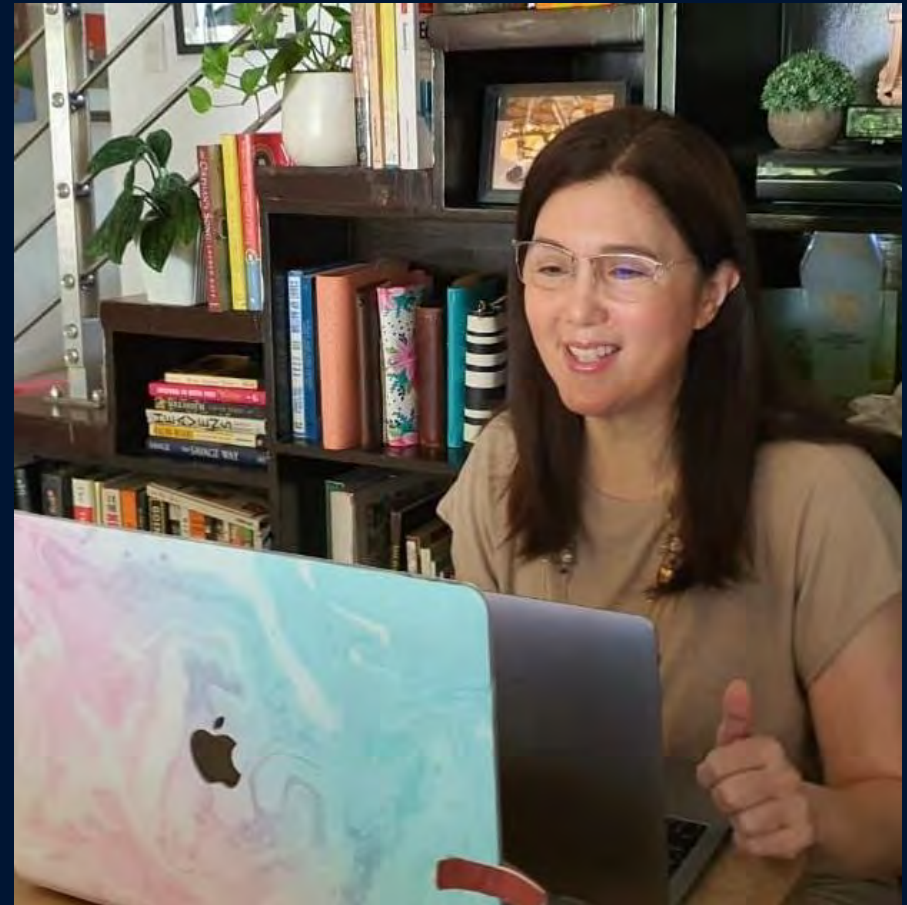
Dr. Anita Sykes Kelleher
(Founder, Designer Futures)



Dr. Ethel Agnes Valenzuela
(Director, Southeast Asian Ministers of
Education Organization)



Dr. Jennie Jocson
(VP for Academics, Philippine
Normal University)



Budget Interventions for **Futures Thinking:**

- Funding for the Futures Offices of:

- *Department of Education*
- *Department of Health*
- *Department of Science & Technology (DOST)*

- Funding for an SDGs Sub-Committee under the National Economic and Development Authority (NEDA)

- Research funding on:

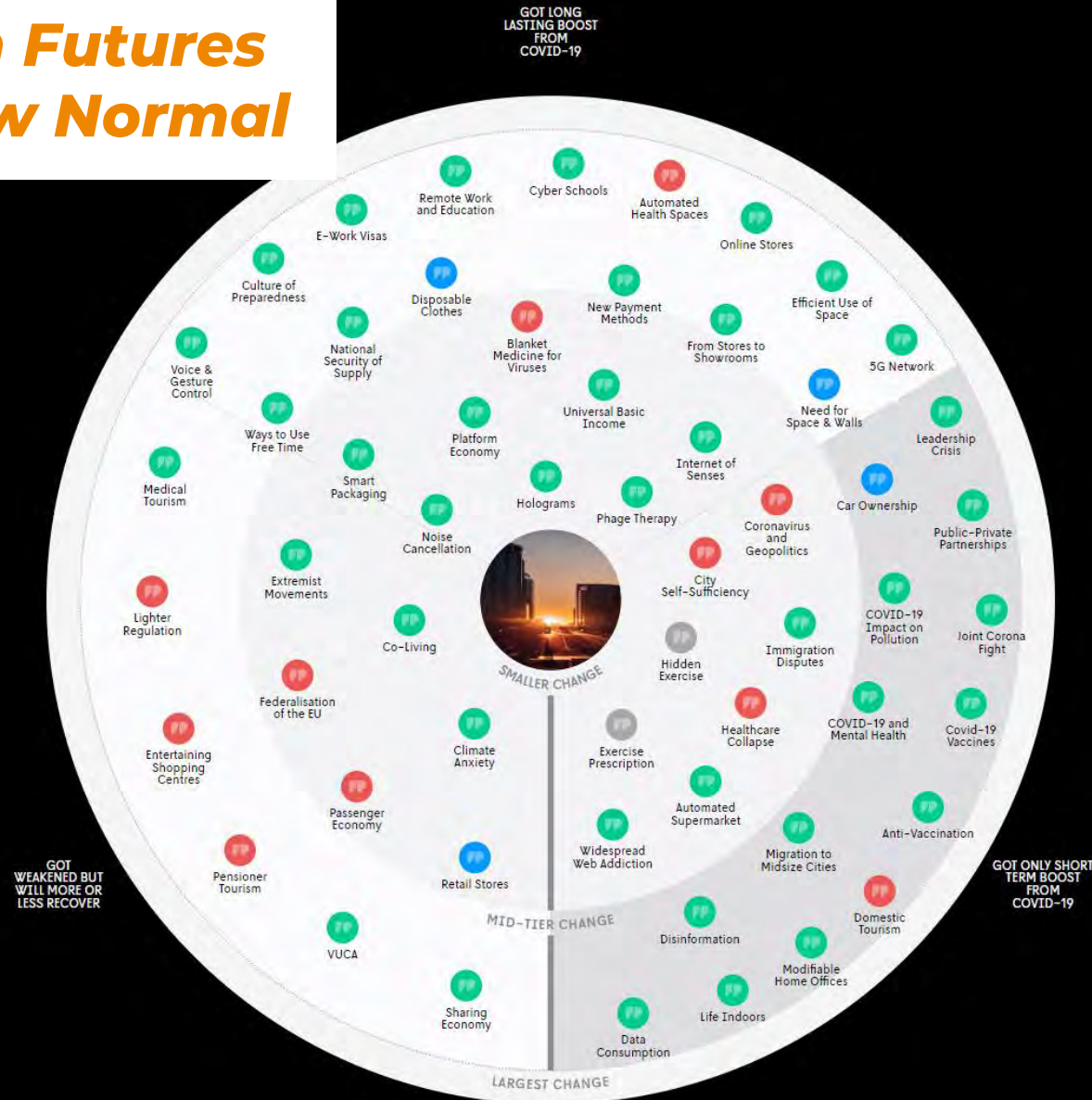
- *Futures of food systems and food security
in 4 state universities & colleges*
- *Future of food production for DOST*

- Additional funds for the Development Academy of the Philippines (DAP), for gov't officials' strategic foresight training



Senate Hearing on Futures Thinking & the New Normal

The Futures Platform Team from Helsinki, Finland presented to us the **Foresight Radar**, which monitors trends/phenomena that might impact our future.



Dr. Tuomo Kuosa



Saku-Juhani Koskinen



The Futures of HEALTH

3 GOOD HEALTH
AND WELL-BEING



PHOTO SOURCE: HEALTHCAREWEEKLY WEBSITE

-
- ✓ Focus on primary care
 - ✓ Patient-centered care
 - ✓ Increased use of technology (telehealth, AI, simulations in med school)
 - ✓ Engagement with communities (community healthcare)
 - ✓ Prioritizing wellness & prevention (holistic health; healthy lifestyle)



The Futures of **CITIES AND TRANSPORTATION**

11 SUSTAINABLE CITIES
AND COMMUNITIES



PHOTO SOURCE: NEW JERSEY DIGEST WEBSITE



THE SAFE PATHWAYS NETWORK

PHOTO SOURCES: 6SQFT WEBSITE | ADB INSTITUTE WEBSITE



WALKABLE AND BIKEABLE COMMUNITIES BILL

PASSED ON THIRD READING

The Futures of **EDUCATION**

4 QUALITY
EDUCATION





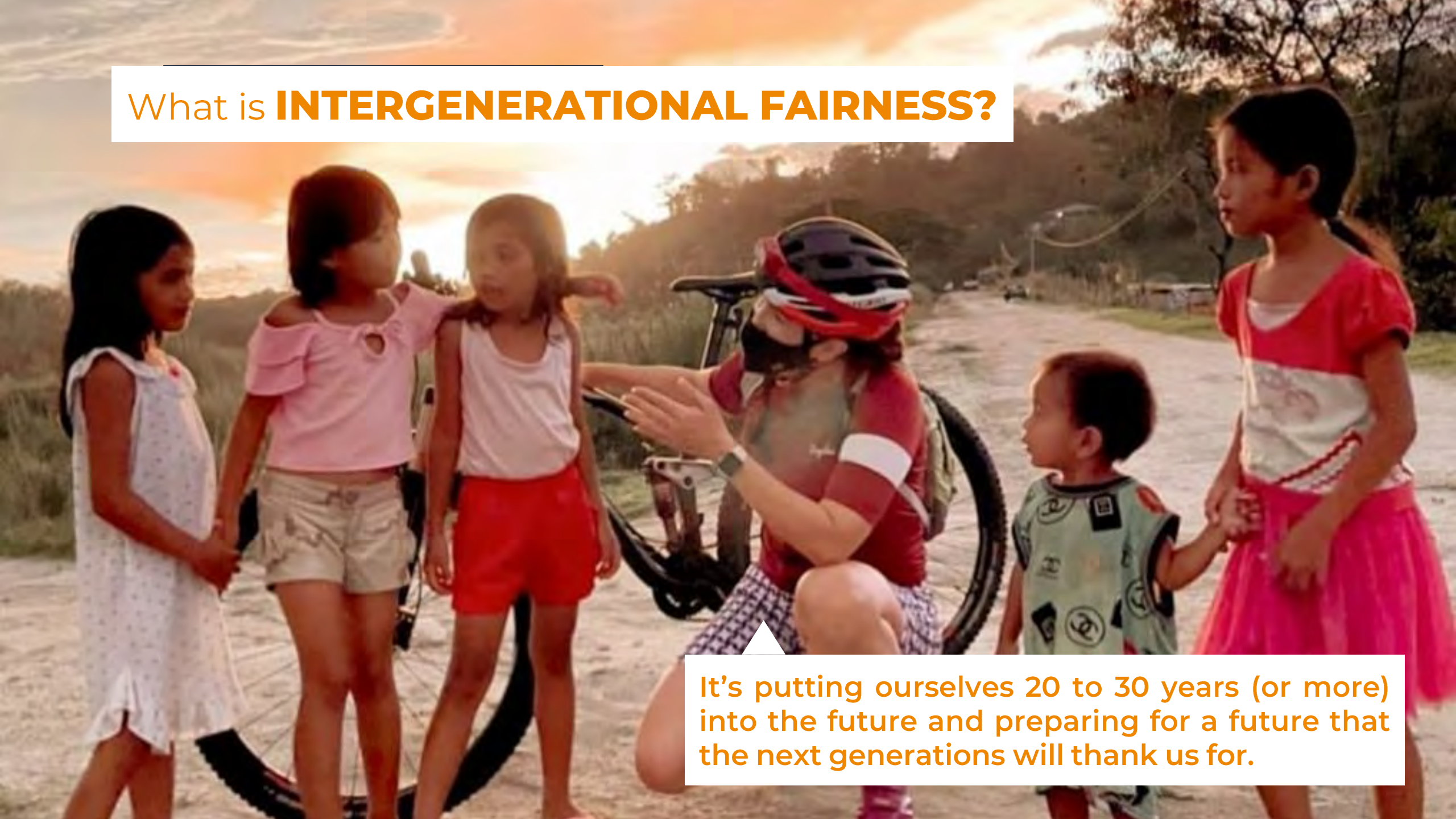
“By employing **FUTURES THINKING** at the policy level, we can have a systematic assessment of education and its direction in light of the potentials of the future.”



- How do we meet the **water** requirements needed to support living organisms & their ecosystem?
- How do we ensure global **food** security?
- How do we create a **city** that provides for the social, economic, and environmental needs of people, while supporting the planet?

- *How can we create an **educational system** that prepares and equips our children with the skills and jobs needed in the future?*
- *How do we transform the current **healthcare system** to adapt to the changing global landscape, taking into consideration future pandemics, climate change, environmental degradation, and technological advancement?*
- *How do we seamlessly shift from traditional modes of **transportation** to more sustainable ones?*

What is **INTERGENERATIONAL FAIRNESS**?



It's putting ourselves 20 to 30 years (or more) into the future and preparing for a future that the next generations will thank us for.

→ 11.30 – 11.45

URUGUAY

Mr. Rodrigo Goñi

Chairman of the Committee of the Future,
Parliament of Uruguay





URUGUAY PARLIAMENTARY SPECIAL FUTURES COMMITTEE

FINLAND FUTURES COMMITTEES SUMMIT
12- 13, October 2022

URUGUAY PARLIAMENTARY SPECIAL FUTURES COMMITTEE

- Created by Law 19.509,
- Passed by all Political Parties on July 4th, 2017
- 15 members
- Research on issues of strategic relevance
- Assist other Parliamentary Committees
- Prepare a “Report on the Future”

PRESIDENTE		VICEPRESIDENTE	
 Rodrigo GOÑI Partido Nacional DIPUTADO	 Silvia NANE Frente Amplio SENADORA	 Fernanda ARAÚJO Partido Nacional DIPUTADA	
 Sebastián CAL Cabildo Abierto DIPUTADO	 Felipe CARBALLO Frente Amplio DIPUTADO	 Lilián GALÁN Frente Amplio DIPUTADA	 Verónica MATO Frente Amplio DIPUTADA
 Martín MELAZZI Partido Colorado DIPUTADO	 Gustavo OLMOS Frente Amplio DIPUTADO	 Daniel PEÑA Partido de la gente DIPUTADO	 Gloria RODRÍGUEZ Partido Nacional SENADORA
 Alejandro SÁNCHEZ Frente Amplio SENADOR	 Carmen SANGUINETTI Partido Colorado SENADORA	 Sebastián VALDOMIR Frente Amplio DIPUTADO	 Pablo VIANA Partido Nacional DIPUTADO

Lydia GARRIDO
Futures Senior Advisor



The CEF is **an innovative initiative in the Uruguayan Parliament**

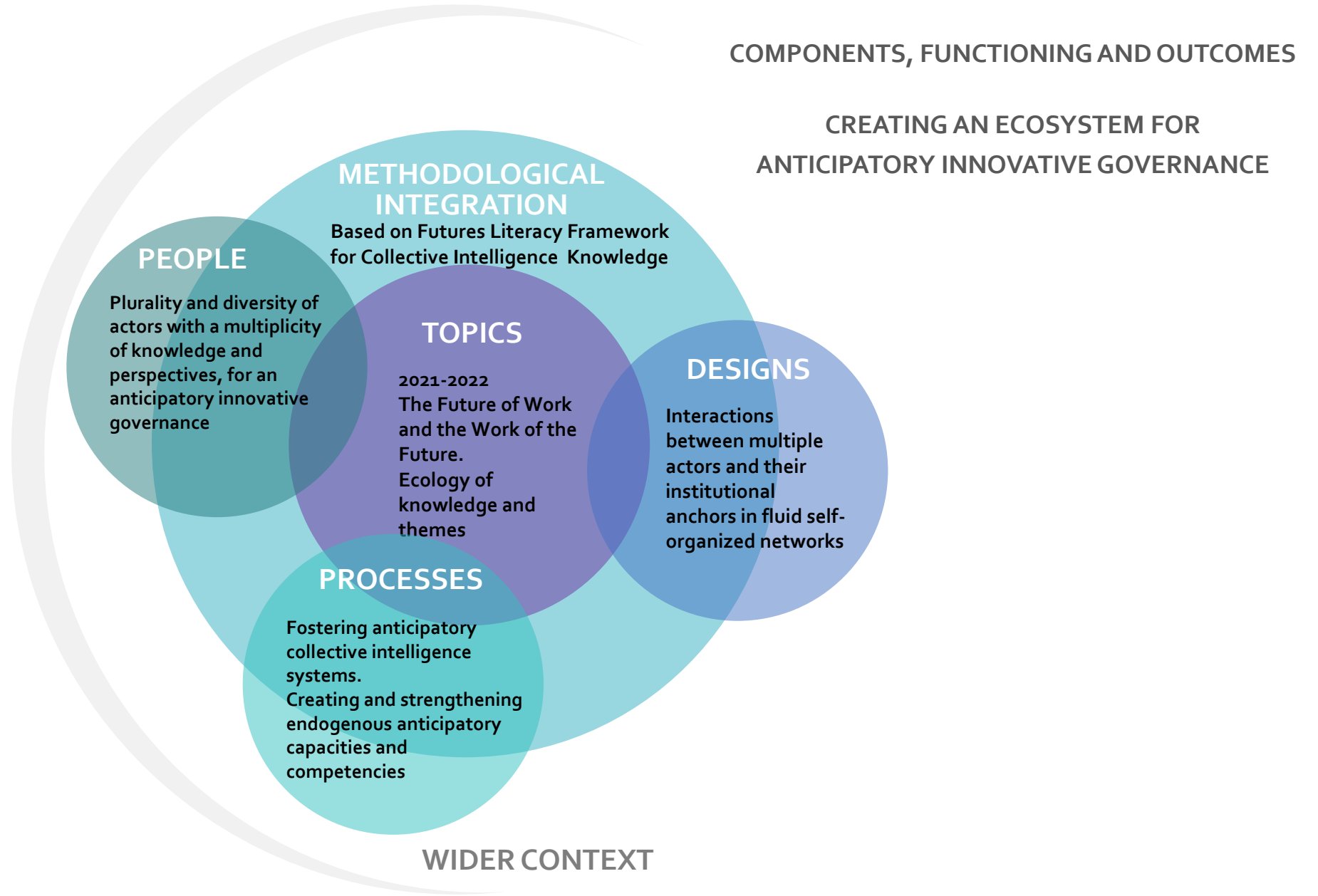
It has a purpose and functioning that **is different to the rest of the committees mainly in two aspects:**

1. It has been designed as a collective intelligence system working with a broad and representative extra-parliamentary advisory group
2. Each topic is addressed in Futures key (Futures Literacy Framework)

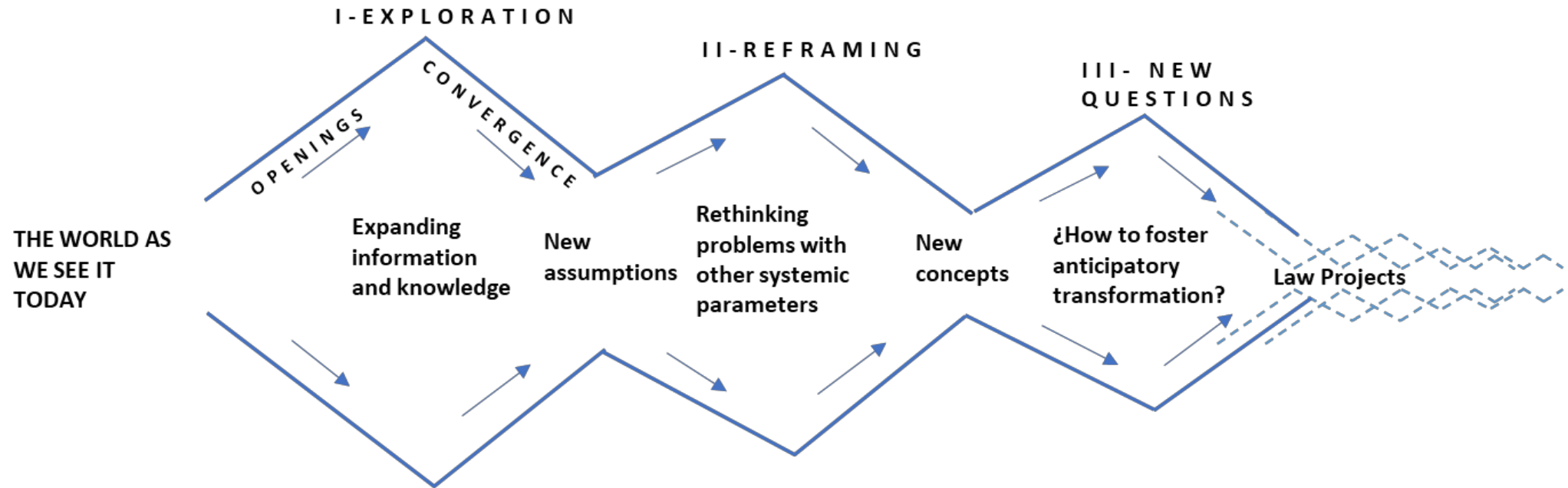
A **strategy** to improve
Anticipatory Governance
to better address **complexity**
and uncertainty for high
level policy decision-making



URUGUAY PARLIAMENTARY SPECIAL FUTURES COMMITTEE

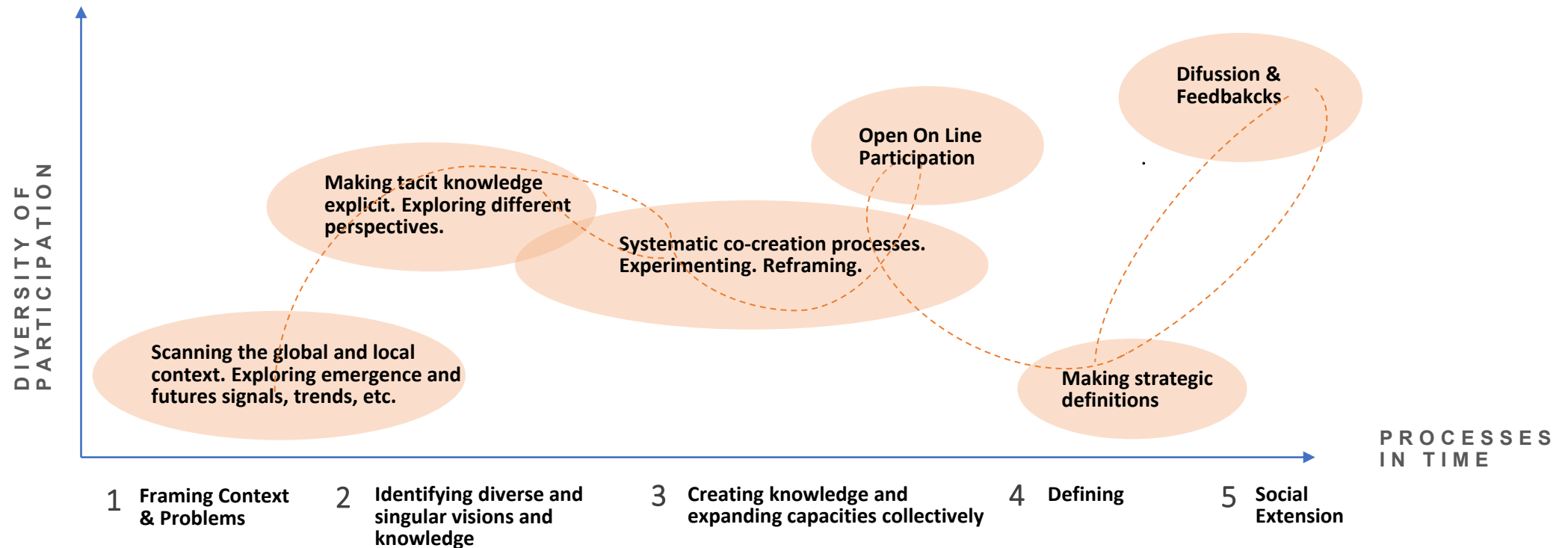


MULTIPLES ITERATIONS



URUGUAY PARLIAMENTARY SPECIAL FUTURES COMMITTEE

FUTURES LITERACY COLLECTIVE KNOWLEDGE CREATION PROCESSES



Working with the Extensive Network of Collaborators: diversity of actors from the public and private spheres, expert researchers, academics, professionals, entrepreneurs, decision makers, leaders of social organizations and specialized institutions, various communities of interest, civil society, etc.)

Multiple methodologies and work techniques were integrated, (workshops, Delphi studies, Futures Literacy 'Laboratories' for co-creation, online public consultation, interviews, etc) Second fonts (Foresight Reports, Think Tanks publications, etc.).

The CEF has been working with a diversity of experts and participants based on the following five thematic axes:

1. **Transformation and emerging vectors in the world of work:** permanence and differences, what challenges do they pose?
2. **Rethinking value production:** new technologies, products, practices, values and actors in the production of economic and non-economic value for a sustainable world.
3. **New skills for the 21st century:** learning as a permanent process (“Learning Intensive Societies”)
4. **Long-standing societies (100+):** Transition towards a future of longevity. Its impact on the world of work.
5. **The governance of the Work of the Future:** regulation and labor policy for a change of era.

To address complexity,
uncertainty, ambiguity and
novelty.

6 - STRESS ON PLANETARY LIMITS

New ways of relationship with the
environment.
The key role for RESPONSIBLE
ANTICIPATION and ANTICIPATORY
ACTIONS (not only mitigation or
reactive adaptation)
New modes for consumption and
production. Cultural changes.

5- NEW RELATIONSHIP WITH THE SPACE DIMENSION

Not just other planets... But the 'Third
Environment', parallel virtual worlds
(METAVERSE) as spaces for production,
consumption, relationships, social
interactions.

4 . HUMAN - NO-HUMAN INTERACTIONS

New modes of human-machine interaction. Cyborgs, humanized robots, 'extended' humans...
We need to work regulating in advance (responsible anticipation) for new relationships between
'human intelligence' and 'artificial intelligence'.

FUTURE OF WORK

What are the novelties?
Interrelationships?
Opportunities?
Threats?
Enablers?
Inhibitors?

1. NEW TECHNOLOGICAL PLATFORM. TECHNOLOGICAL CHANGE

Disruptive transformations at the level of: Energy,
Transportation, Materials, Information, Food.
Uruguay has scientific and technological strength areas
with relative 'transient advantages'.

A key challenge are anticipatory actions to take advantage
of the opportunities and also enable conditions for
institutions, organizations and people to update, adapt
and transform before negative or unwanted effects.

NEW WAYS OF KNOWLEDGE, INFO AND DATA CREATION, ORGANIZATION, DISTRIBUTION, ACREDITATION AND STORAGE

Ubiquity, relocation, simultaneity, singularity and
autonomies...

New ways to organize work, collaborate, learn

Enabling 'sandboxes' for crossing knowledge, conversations, experiences,
support and learning. Bringing cutting edge research, technologies, new
value creation models, entrepreneurs, creatives, more traditional sectors,
workers' organizations, educative and training sector (formal and non-
formal), academia, diverse social organizations and public decision-makers
in an arena of collective intelligence processes.

3 - LONGEVITY. HUMANS 100+

Active long living society.

New 'cycles of life', multiple different beginnings, endings and re-
beginnings. Permanent updating and re-invention..

We need to do a lot of anticipatory work in order to enable the conditions
for a healthy, active, enjoyable, productive, quality life extension.

WE ARE PAYING ATTENTION TO:

- 1. Decoupling signs between growth, productivity and well-being are being identified with the introduction of new technologies and business models.
- 2. Signs of potential accentuation of polarization in the labor market, because the tasks performed by workers who are at the center of the labor market distribution tend to be routine and therefore more easily automated.
- 3. Both, the need for adaptation and updates as well as needs for new knowledge and skills for new modes of value generation are being mapped.
- 4. New technologies strain a very broad arc of transformations, including issues related to privacy, security and guarantees of labor rights. Aspects related to ethical and bioethics issues were raised. Also aspects referred to rapidly advance to issues related to cybersecurity, including as part of early educational proposals for a responsible use of technologies and social networks.
- 5. With regard to signs of changes in labor relations. E.g. new types of work and business models require changes in employment contracts, new modes of labor relations and interaction of workers with enterprises, new modes of decentralized and/or distributed work and relationship between those who work together, among others). The legislation we have for the most part was conceived for a different working context than what is already here and what will come. It requires a 'translation' of acquired rights - without implying losses - together with new rights for a different 'world of work'.
- 6. Changes in the valuation and sense of work influenced and propitiated by what new technologies enable.

A LEARNING INTENSIVE SOCIETY (Miller, 2006, 2015)

- "*Change has changed*" and this also deepens the experience of uncertainty and the difficulty of managing the unknown.
- In this context, the obsolescence of knowledge begins to become increasingly prevalent; what has been learned at any given time can quickly lose its usefulness or meaning.
- "Learning to navigate in an ocean of uncertainties through archipelagos of certainty" (Morin, 1999:2) becomes a constant or imperative of the time.
- In these times of transitions, characterized by the permanent creation of novelty, the ability and competences to learn, is not only a 'functional' imperative, but fundamental, since they have to do with one's own survival, not only individual and relative to personal development (for example, in a life project) but also, as a collective and society (learning is always social and individual at the same time).
- Learning is the fundamental pillar for value creation. In systems that are in continuous change and intertwined, the social learning system in an ideal situation would tend to a "Learning Intensive Society" (Learning Intensive Society, LIS, Miller, 2006, 2015).
- A learning-intensive society requires an educational system capable of training in the skills that are required in a context of continuous change. Competences that allow learning to unlearn and relearn (according to Toffler, 1970). It is not only about training in digital competences, but also socio-emotional and cognitive skills of high order, the so-called non-cognitive skills or meta-skills, (mental flexibility, ability to learn and relearn, self-management, critical thinking, creativity, interaction skills, empathy, resilience, collaboration and interconnection).

THE CHALLENGE OF AMBIDEXTROUS ANTICIPATORY ACTION

- Change processes do not operate in a vacuum. Transformations in the world of work occur in a complex, heterogeneous society with unequal access.
- The learning-intensive society involves individuals with rapid capacity to adapt and assimilate new knowledge. However, this adaptation does not happen in the air: the previous assets that people have affect their ability to adapt but also have the ability to resort to potential assets that are in the futures that are imagined as possible and the enabling conditions that may be (or be generated).
- In this context, experts and legislators identified that one of the central challenges lies in achieving an ambidextrous anticipatory action articulating the long and medium term with the here and now that includes the dynamics of permanent generation of novelty. Also, to enhance the future in the present, is to generate the conditions that allow access to desired futures.
- It is about transforming the future into the present by combining actions that enhance the processes of change in such a way that society in general and people in their free choice have access with equal conditions.



The Parliament is the area of government that makes the most intensive use of the future since it always legislates for tomorrow.

A Futures Committee in the Parliament is a milestone towards an Anticipatory Innovative Governance

URUGUAY PARLIAMENTARY SPECIAL FUTURES COMMITTEE

FUTURES SENIOR ADVISOR: Lydia GARRIDO, UNESCO Chair in Anticipation and Resilience

COORDINATOR: Bruno Gili

TECHNICAL SECRETARY: Inés Fynn, PNUD



Uruguay Parliamentary Special Futures Committee

THANK YOU VERY MUCH!!

CONTACT:

Rodrigo GOÑI, President of the Uruguay Parliamentary Special Futures Committee, rgonir@parlamento.gub.uy

Silvia Nane, Vice President of the Uruguay Parliamentary Special Futures Committee, silvia.nane@parlamento.gub.uy

Lydia GARRIDO, Futures Senior Advisor, UNESCO Chair in Anticipation and Resilience, lydiagarrido@gmail.com

THE PERSPECTIVE OF THE YOUTH OF FUTURES

European School of Helsinki

Mikko Kuha, Teacher

Reko Parviainen, Elvi Thies, Kaarlo Lahti,
Vilma Tanavama and Oliver Sulkanen, Students

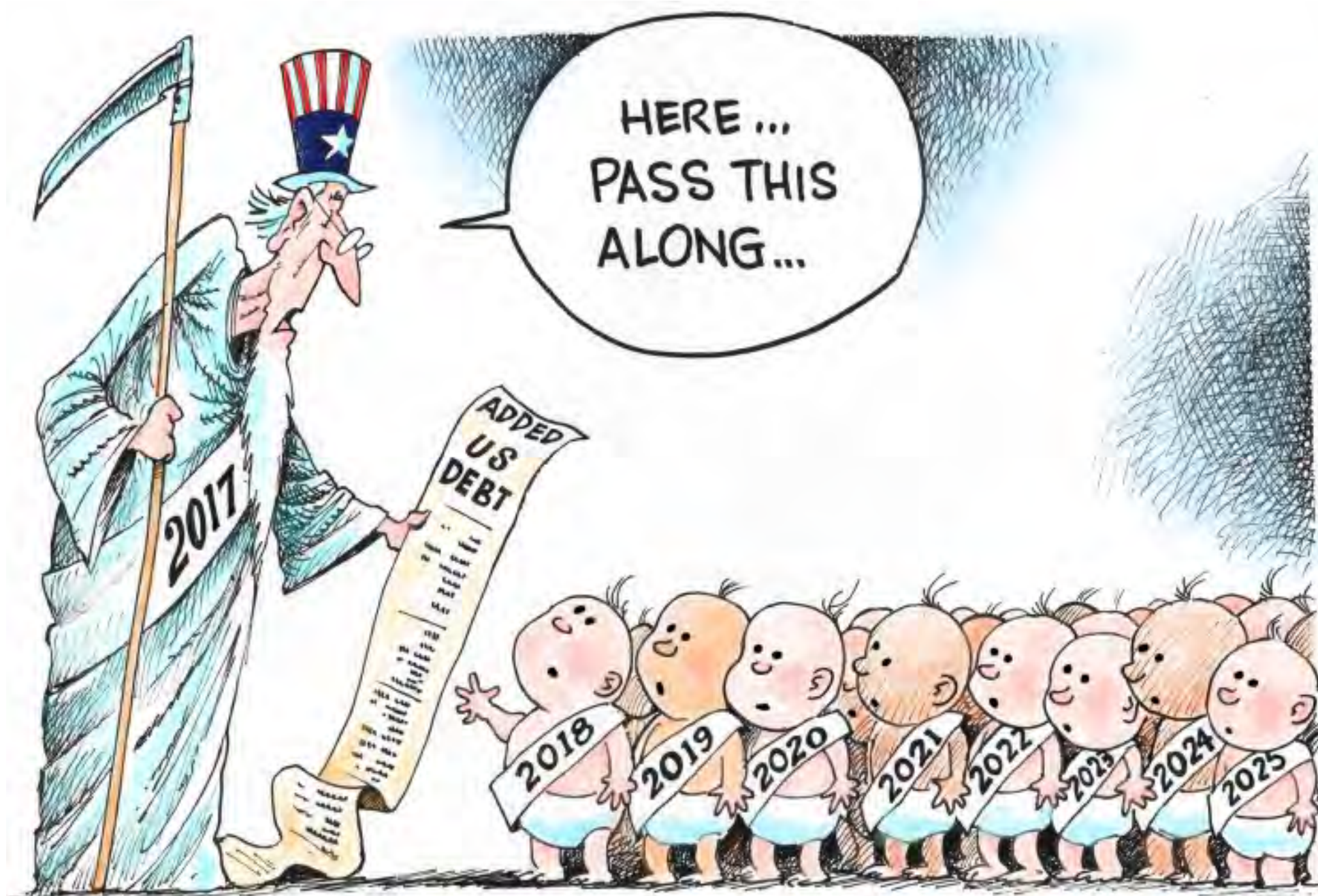












Canada

Estonia

Poland

Thailand Vietnam

COMMITTEE PRESENTATIONS

Afternoon session



PARLIAMENT
OF FINLAND

→ 13.45 – 14.00

CANADA

Mr. Joël Lightbound

MP, Chair, The House Commons Standing Committee
on Industry, Science and Technology (INDU),
House of Commons



PARLIAMENT
OF FINLAND



→ 14.00 – 14.15

ESTONIA

Mr. Raivo Tamm

The Chairman of the European Union Affairs Committee
and member of the Economic Affairs Committee, MP,
Parliament of Estonia

Ms. Johanna Vallistu

expert, Foresight Center, Chancellery of the Riigikogu,
Committee of Economic Affairs, Parliament of Estonia



PARLIAMENT
OF FINLAND





Committees of the Future World Summit, Helsinki 12. – 13.10.2022

Foresight in Estonia and the Economic Committee of the Parliament

Johanna Vallistu

Expert at Foresight Centre at the Parliament of Estonia

Foresight Centre at the Parliament of Estonia

Foresight is the identification and analysis of **long-term developments** in the Estonian society, preparation of **development scenarios** on their bases together with the distinction of opportunities and risks for the society, monitoring the realization of development scenarios and, where necessary, the adjustment of development scenarios and their outcome.

Foresight Act, § 2



- Established in 2016, 6 employees
- Foresight steering committee in the parliament: **Economic Affairs Committee**
- **Foresight Council** is formed from recognised experts in the field of research, business and technology to ensure the independence of foresight
- www.arenguseire.ee/en



The scenarios must be of assistance to the MPs in shaping policy with a horizon of 5-15 years

Methods

- Systemizing the results of existing studies, procuring new studies
- **Analysis of key factors** by combining qualitative and quantitative methods
- Creating **alternative scenarios**
- Bringing out the decisions and steps that increase the probability of realizing different scenarios – scenarios to strategy

Process: a knowledge based view immersed in foresight approach

- **Council:** 5 people from academia, business
- **Steering committees:** MPs interested in the topic and officials involved in the topic
- **Expert committees:** Estonian and international scientists and experts
- **Cooperation** with parliamentary committees in charge of the particular topic



Outputs

- Analytical reports and analyses
 - Background studies
 - Main report in every project
- Trend reports and briefs
- Newsletter
- Newspaper articles, media
- Webinars and conferences





FORESIGHT CENTRE

An independent think tank at the Riigikogu

Est Rus

Search

NEWS OUR RESEARCH REPORTS VIDEOS ABOUT FORESIGHT CENTRE ▾

The Foresight Centre is a think tank at the Chancellery of the Riigikogu that analyses long-term developments in society and the economy. Our mission is to help shape forward-looking policy-making.

www.arenguseire.ee/en

21.08
2022

Report: Insecurity of officials hinders a broader publication of public information



Datafication of the Estonian society creates ever increasing challenges both for public and private sectors, says the Foresight Centre brief report "Pitfalls of Using Public Data"

Latest videos



17.06.2022 — [The Future of Higher Education](#)

[Charles Clarke "Challenges for higher education"](#)



17.06.2022 — [The Long-term Impact on Estonia of the War between Russia and Ukraine](#)

[Alexander Stubb "How the war in Ukraine changes the world?"](#)



17 major projects since 2017

- The future of **mobility** in Estonia
- The future of **long-term care** in Estonia
- Future-proof **tax system** for Estonia
- The future of **healthcare** in Estonia. Scenarios up to 2035
- The impact of the **virus crisis** on the Estonian economy. Scenarios up to 2035
- The future of **maritime trade** in Estonia
- **Global balance of power 2035**
- Scenarios of future **well-being of the elderly 2050**
- Scenarios of **regional economy** in Estonia 2035
- **Governance 2030**. Scenarios for public sector governance and e-Estonia
- **Productivity** scenarios 2030
- **Labour market 2035**



2022

- The Future of **Higher Education**
- The Long-Term Impact on Estonia of the **War Between Russia and Ukraine**
- The Future of **Data Society**
- **Green Transition** Scenarios in Estonia



Some key messages: mobility

- 20% of Estonians living in cities are willing to replace personal car with a more sustainable means of mobility.
- Electric cars would reduce tax income by 100M EUR by 2030.
- Self-driving cars would decrease the use of public transport



Some key messages: platform work



- 56 000 people work on platforms on a regular basis in Estonia.
- Platform workers earn below the average wage.
- Platform work could bring up to 68 million EUR of additional tax income.

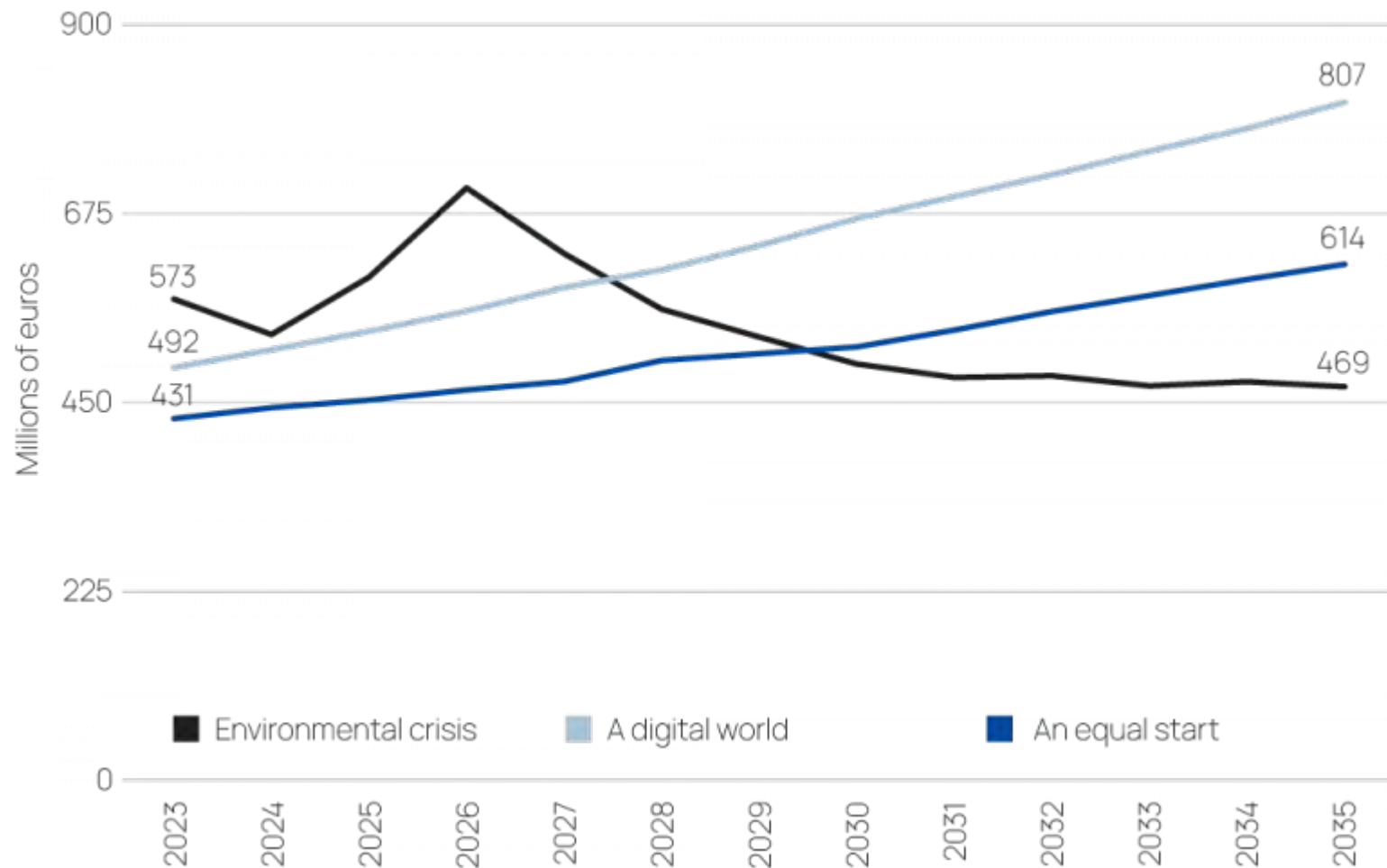
Some key messages: long term care

- Budget needs to increase many fold to provide a sustainable service
- Pressure to use external work force will increase
- Alternative approaches (star system) might be more effective



Key messages: Estonian tax system

- By 2035 the deficit of social budget will be 2,5b EUR – if the current system prevails
- Social security tax and asset taxes are the weakest aspects of the Estonian tax system
- Alternative approaches are:
 - Additional environmental taxes
 - Asset taxes
- Implement real time taxing



Additional tax receipts under different scenarios above those from the current system, 2023-2035

Translating findings into policy

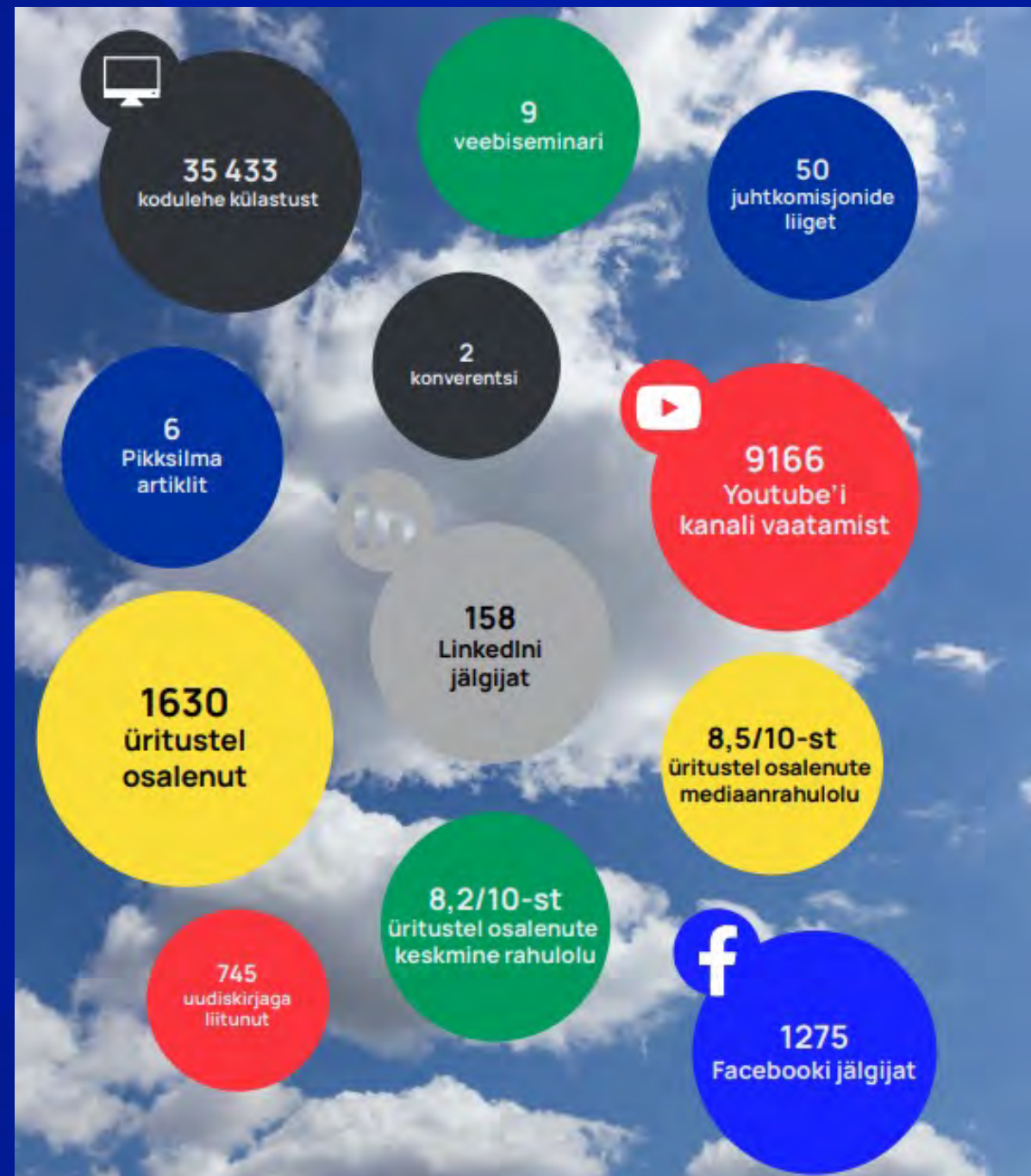
Coalition agreement for 2022 – 2023:

- **Future of long-term care:** promise to undertake a reform in the long-term care sector to find a more sustainable arrangement
- **Future of higher education:** promise to increase funding by 15% for four years in a row

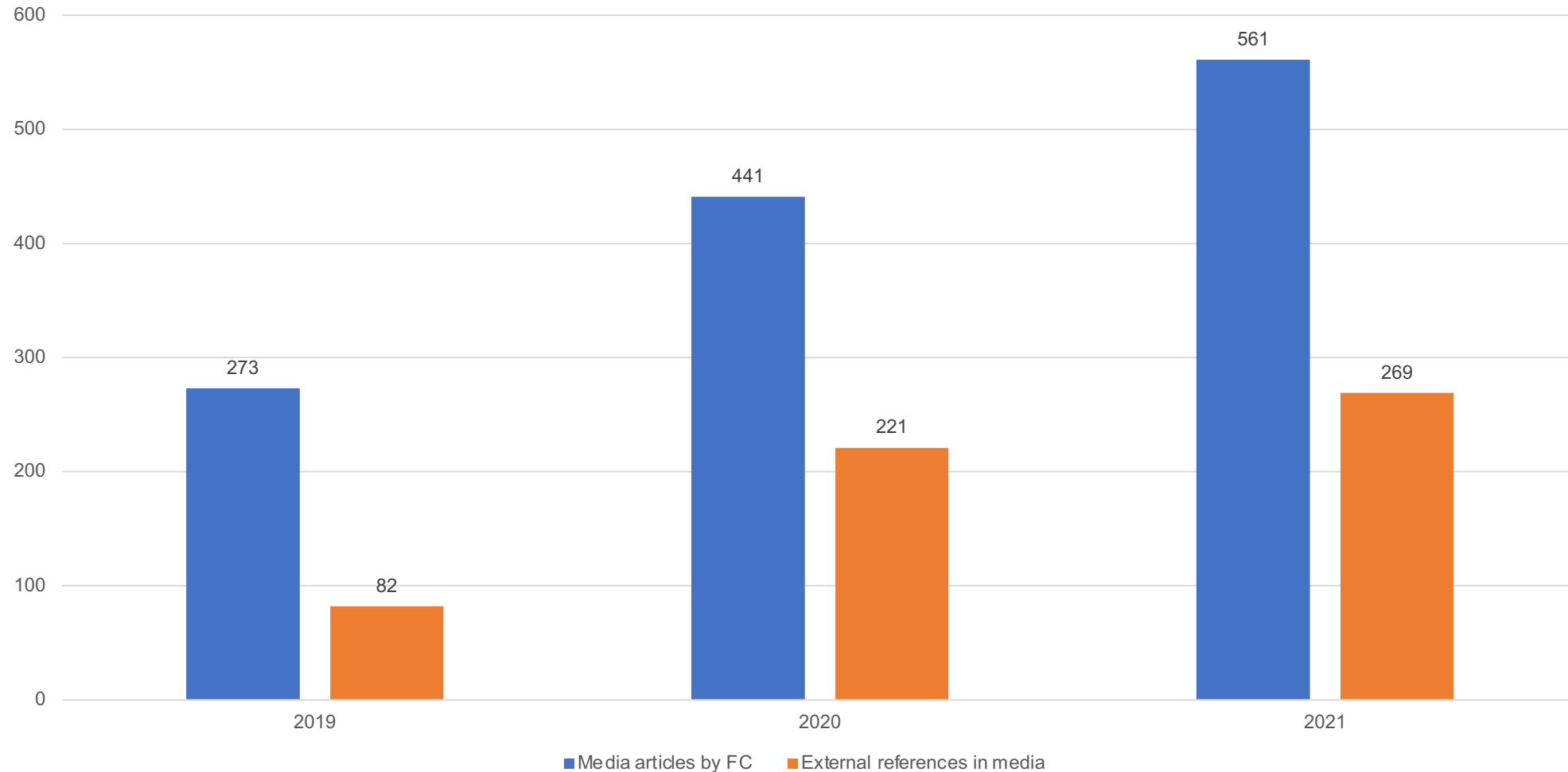
Higher education, future-proof tax system, future of work (social security: part of election programmes of many political parties



Foresight Centre in numbers 2021



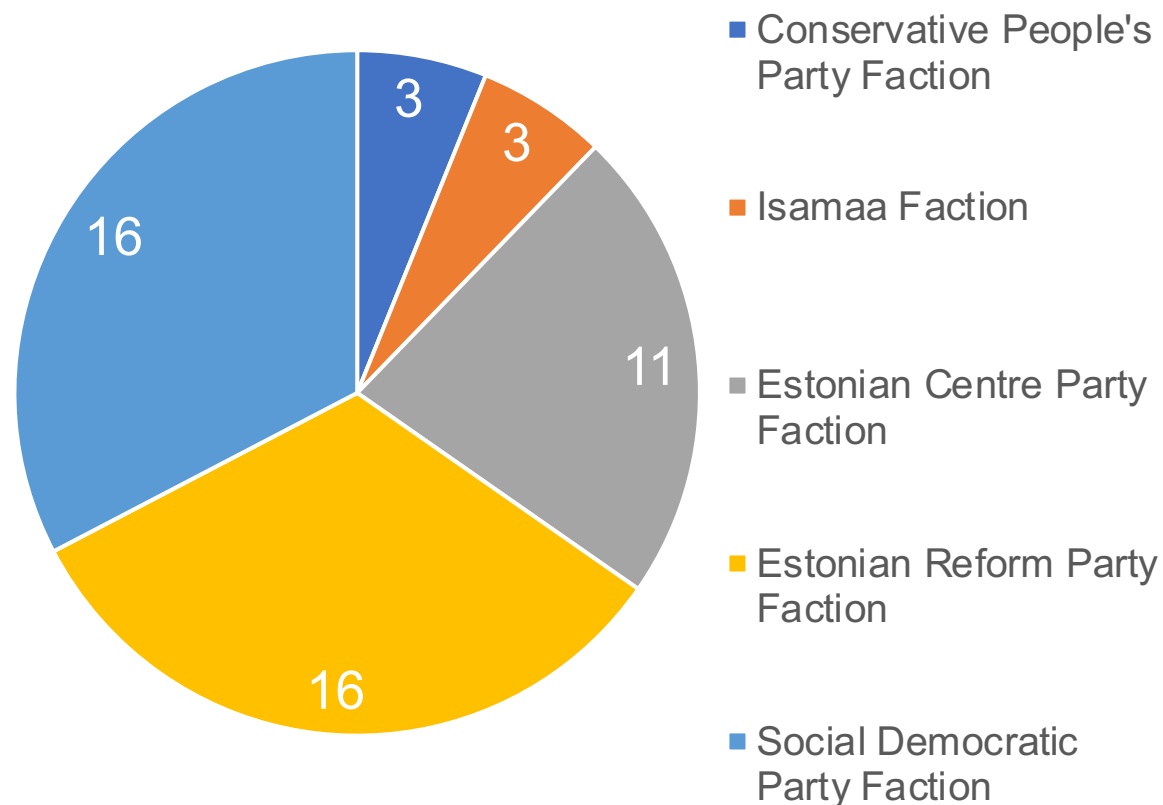
A growing impact in the society



Source: Station



MPs participated at FC's events and discussions 49 times in 2021



And Foresight Centre presented its results on 15 occasions at the parliament



Aitäh!

Johanna Vallistu

Expert

Arenguseire Keskus

M: +372 527 8889

www.arenguseire.ee

→ 14.15 – 14.30

POLAND

Mr. Michał Gramatyka

MP, Committee for Digitalisation, Innovation and
Modern Technology, Sejm of the Republic of Poland





The Committee
for the Digitalisation,
Innovations and Modern
Technologies

Our Team

- Grzegorz **NAPIERALSKI** (MP, KO EPP, V-ce Chairman)
- Jerzy **BIELECKI** (MP, PIS EC-R)
- Dariusz **STEFANIUK** (MP, PIS EC-R)
- Michał **GRAMATYKA** (MP, Polska2050 Renew Europe)



The Timeline

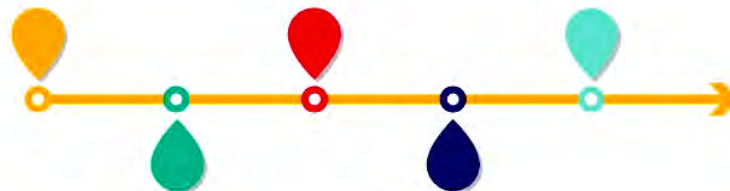
2007 – *first steps, **ideas** and projects;*

2010 – *Parliament of Poland **issued** the Committee;*

2015 – *“Digitalisation” **added** to the Committee name;*

2020 – *Sub-Committee for the **algorithms** challenges;*

2021 – *UN Internet Governance Forum, **Katowice**.*



Our Mission

- *Tracking changes of Polish regulations on digitalisation;*
 - *Digital transformation of Polish law;*
 - *Implementation of Electronic Mail Delivery Act in Poland;*
 - *Introduction of DMA, DSA, AIA into Polish law;*
 - *Cooperation with international organisations;*
- *Promotion of digital communication between the state and citizens.*

Dziękujemy / Thank You / Kiitos



→ 14.30 – 14.45

THAILAND

Mr. Acaravat Asvahem

VIRTUAL PARTICIPATION

Chairman, Committee of Science, Technology, Research,
and Innovation, House of Representatives, the Kingdom of Thailand

Mr. Pun-Arj Chairatana

Member of Sub-Committee





ISSUES FOR THE SUMMIT OF THE COMMISSION FOR THE FUTURE, REPUBLIC OF FINLAND

By
The Committee on Science, Technology, Research,
and Innovation House of Representatives
Kingdom of Thailand

TOPICS

Utilization of technology
and innovation for
better future of
Thai people

1

The roles of Thailand
and global issues

2

Solving local problems
through knowledge
and research
application

3

TOPICS

**Utilization of technology
and innovation for better
future of Thai people**



Solving local problems
through knowledge
and research
application

The roles of Thailand
and global issues

THE EMERGING TECHNOLOGY AND INNOVATION SIGNALS IN 3 ASPECTS



Competitiveness



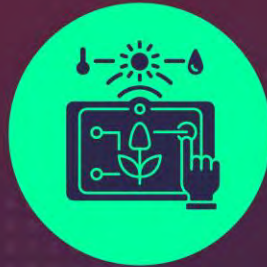
Inequality



Climate Change

9 KEY AREAS FOR FUTURE DEVELOPMENTS

BIO-CIRCULAR- GREEN ECONOMY OR BCG



Smart
Farming



Food



Genomics

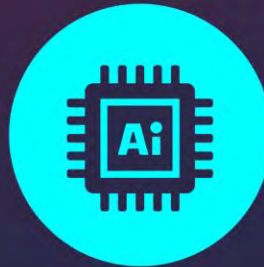


Vaccines
and Biologics

NEW S-CURVE INDUSTRIAL SECTORS



Next-Generation
Automotive



Artificial
Intelligence
(AI)



Quantum
Technology



Advanced
Materials
Technology



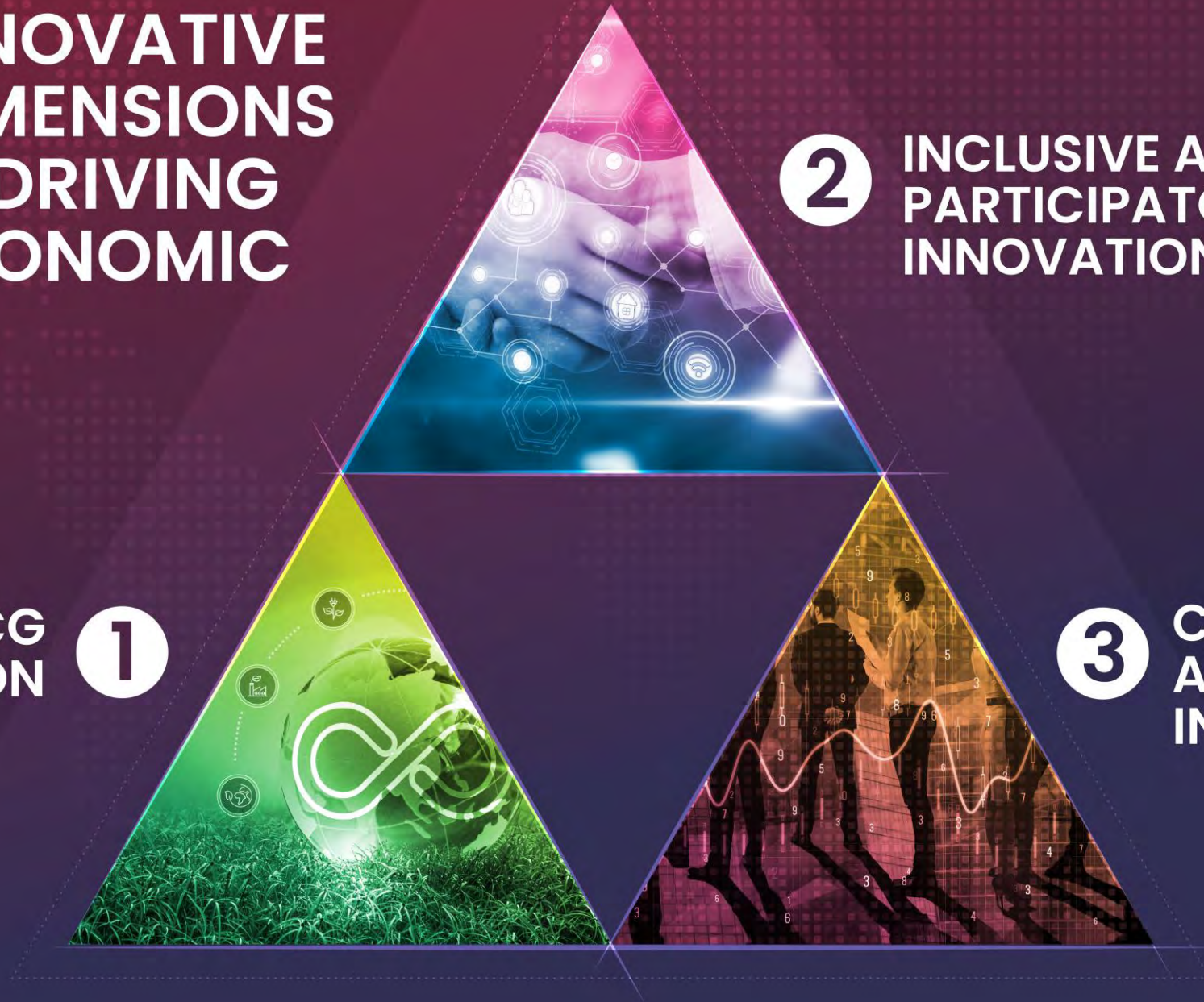
Space
Technology

3 INNOVATIVE DIMENSIONS IN DRIVING ECONOMIC

2 INCLUSIVE AND
PARTICIPATORY
INNOVATION

BCG
INNOVATION **1**

3 CREATIVE
AND CULTURAL
INNOVATION



TOPICS

The roles of Thailand and global issues

Utilization of technology
and innovation for
better future of
Thai people

Solving local problems
through knowledge
and research
application



THE ROLES OF THAILAND AND GLOBAL ISSUES

The diagram illustrates the central role of Deep Tech in addressing various global issues. A central red circle labeled "DEEP TECH" is connected by arrows to a sequence of red circles: "Public Health Issues", "Vaccines", "Covid-19", and "Diseases in Animal". To the right, it connects to blue circles: "Sustainable Development Issues" and "AI and Big Data". The background is a collage of images related to technology, health, and Thailand.

TOPICS

**Solving local problems
through knowledge and
research application**



The roles of Thailand
and global issues

Utilization of technology
and innovation for
better future of
Thai people

SOLVING LOCAL PROBLEMS THROUGH KNOWLEDGE AND RESEARCH APPLICATION

Educational Policy Framework for 38 Rajabhat Universities



Research agencies



One Tambon, One Product
Programme (OTOP)



Economic Development
Project on the Foundation
of Ornamental Plants,



Project to upgrade the
in the Institute of Scientific
and Technological Research
of Thailand (TISTR)



Social driving unit (SDU)
in ten lower income provinces
initiated by the National
Innovation Agency (NIA)

Research and innovation fund management unit at the local level

Pre-Seed Funding	dtac, trueINCUBE, SSB, Government Grant, TCD FUND, NIA, depa
Seed Funding	dtac, trueINCUBE, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT
Series A	dtac, trueINCUBE, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT
Series B	dtac, trueINCUBE, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT
Series B+ (Series C and beyond)	dtac, trueINCUBE, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT, trueINCUBE, dtac, SSB, ptt, ANANT



THANK YOU

National Innovation Agency (Public Organization)

 NIA : National Innovation Agency    : @niathailand  : NIA Channel
 info@nia.or.th  www.nia.or.th

→ 14.45 – 15.00

VIETNAM

VIRTUAL PARTICIPATION

Mr. Le Quang Huy

Chairman, Science, Technology
and Environment Committee,
National Assembly of the Socialist
Republic of Vietnam



PARLIAMENT
OF FINLAND

→ 15.30 – 15.45

DEMONSTRATION OF HUMAN-LIKE ARTIFICIAL INTELLIGENCE

Mr. Risto Linturi

Futurist



PARLIAMENT
OF FINLAND