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**RESEARCH AND TEACHING
ACTIVITIES IN THE FIELD OF
INTEGRAL FUTURES
AT THE CUB**

*for the guest students from Brno, Affiliated Department of the Rotman
School of Management and the Munk School of Global Affairs and Public
Policy at Toronto University*

3rd of June 2019, Budapest

My topics:

- ▶ Introduction of myself and the short history of the futures field at the CUB
- ▶ My research activities in the field of integral futures
- ▶ Resent practice - oriented research activities in the field of integral futures at the CUB
- ▶ Resent teaching activities in the futures field at the CUB

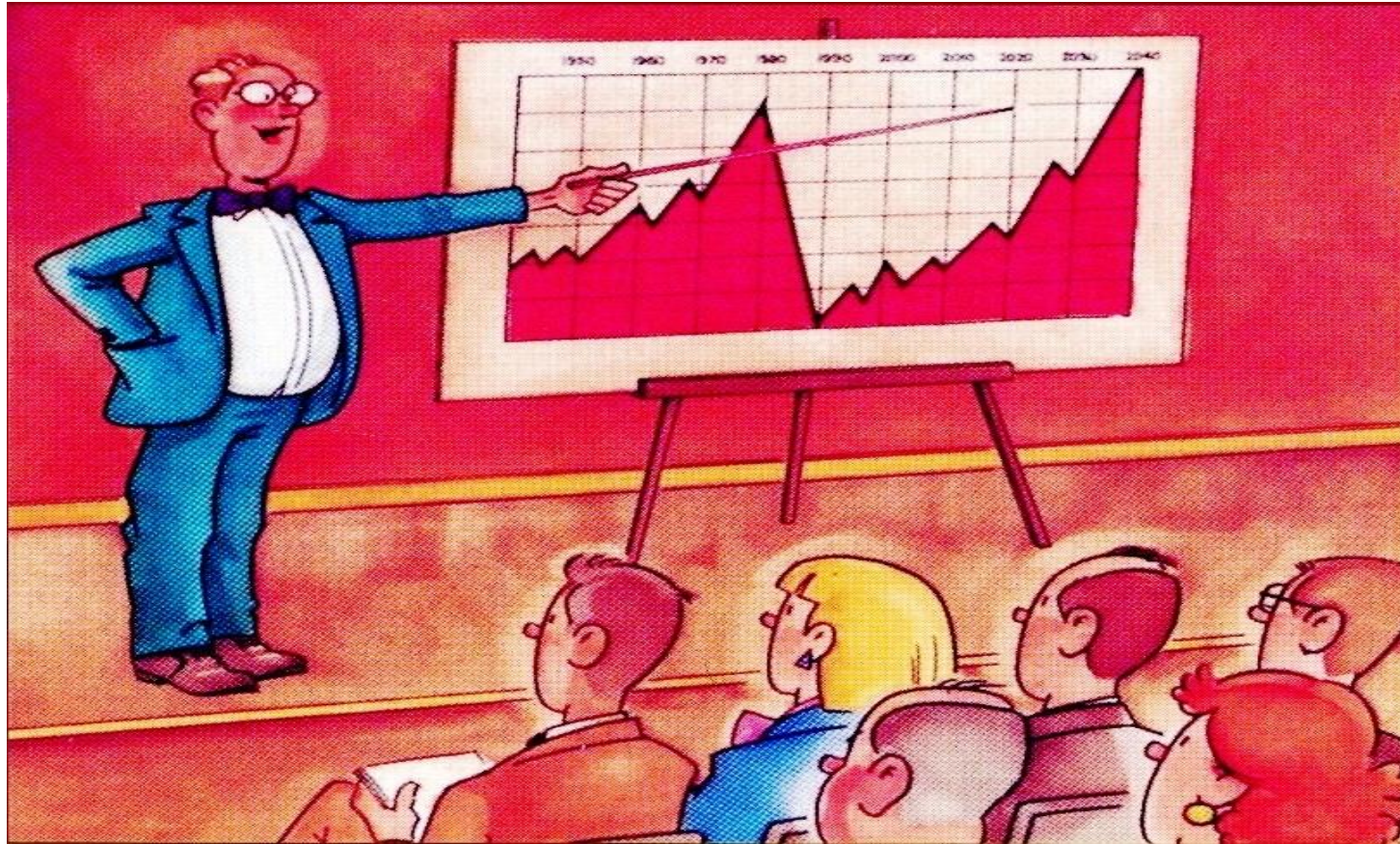
Short introduction of myself

- ▶ I'm a futurist who researches and teaches futures field at CUB and at its predecessors. I have been doing these activities for 45 years.
- ▶ I've got my doctoral degrees and I have also habilitated on this scientific field. I have several publications well-known among futurists all over the world.
- ▶ I am
 - a member of WFSF
 - the co-president of Scientific Committee on Statistics and Futures Research at HAS
 - a non-academic representative at the General Assembly of HAS.

Short history of futures field at the CUB

- ▶ **The fiftieth anniversary of futures field in Hungary** was celebrated in 2018.
- ▶ **Our University was one of the first institutions** where this research and teaching activities had begun.
- ▶ **In 1968's a light economic reform** was carried out under the socialist regime in Hungary. ➡ **Adoption of the futures research as a scientific field**
- ▶ The futures research **was connected to the socialist planning** as an outer circle of planning. Its task was to improve the scientific base of planning. Prognosis had to contain only one version of the desirable future.
- ▶ **A small research group was established** by professor Géza Kovács in 1968. This small group was the seed of our present existence, organisational forms and members were changed several times.

At that time we started on the prognosis making



The farther the future is, the more promising it is.

Figure1

Source: Murphy Calendar, 1992

And we have got to the foresight and integral futures by now



Figure2

Source: <http://aalto.fi/News/28/content/images/news/foresight1.png>

Our selected publications from the fields of foresight and integral futures in English language

- ▶ *Hideg, É. (2015): Paradigms in Futures Field.* Futures Theories 21. Economic Geographic and Futures Studies Department, CUB, Budapest, p. 172. Available at: <http://unipub.lib.uni-corvinus.hu/1900/>
- ▶ *Gáspár, J. (2015): How Future Is Being Constructed in the Corporate Strategy-Making Practice?* CUB, Budapest. Available at: http://phd.lib.uni-corvinus.hu/889/2/Gaspar_Judit_den.pdf
- ▶ *Hideg, É., Nováky, E., Alács, P. (2014): Interactive Foresight on the Hungarian SMEs.* *Foresight* 4. pp.344-359.
- ▶ *Hideg, É. (2013): Integral Futures Based on Paradigm Approach.* *Futures* 45. 2013. January, 6-15. pp. DOI[10.1016/j.futures.2012.11.007](https://doi.org/10.1016/j.futures.2012.11.007)
- ▶ *Hideg, É, Nováky, E, Kristóf, T (2013): Hungarian Educational Foresight: ‘Vocational Training and Future’.* In: *Participation and Interaction in Foresight. Dialogue, Dissemination and Visions*, eds. [Kristian Borch](#), [Sandra Dingli](#), [Michael Sørgaard Jørgensen](#), Edward Elgar Publishing, Northampton, MA, pp. 223-237.
- ▶ *Hideg, É. Hideg, É. Kiss, E., Nováky, E., Vág, A., Alács, P., Kristóf, T., Veigl, H., Neszveda, G., Xin, Feng, ed. Hideg, É. (2009): Futures Studies in the Interactive Society.* – CUB, Budapest, pp. 13–54. Available at: <http://real.mtak.hu/2118/1/interactivekonyv.pdf>
- ▶ *Hideg, É. (2007): Theory and Practice in the Field of Foresight.* *Foresight*, 2007, Vol. 9, No. 6, 36-46. pp. ISSN 1463-6689
- ▶ *Hideg, É.(2002): Implications of two new paradigms for futures studies.* *Futures* 34. pp. 283–294.

My research activities in the field of integral futures (1)

- ▶ I understand **integration** as a characteristic of present changes in forward looking thinking and activities.
- ▶ It has
- ▶ Vertical,
- ▶ Horizontal,
- ▶ Complexity / problem solving and
- ▶ Practical concerns or meaning.
- ▶ **My contribution** to the development of the idea and practice of integral futures are as follow as
- ▶ **1/I have given a framework to construct a dynamic approach to the futures field by using a paradigm matrix – vertical integration**

My research activities in the field of integral futures (2)

Table 1. Scheme of dynamic paradigm matrix of futures field paradigm

Components $(c_i)_t$	Paradigm characteristics $E_{jt} [(c_i)_t]$
Futures views	
Researcher/research team's position	
Subject of inquiry	
Goal and task	
Methodology	
Rules of method application	
"Worthwhileness", usefulness of research results	

Source: Own

- Based on Kuhn's (1962), Guba & Lincoln's (1994) and Heron & Reason's (1997) works
- **Different types of approaches to the future can be elaborated systematically** by the use of the components and their contents.
- The contents of components can be changed in time and that can be resulted in a newest paradigm.

My research activities in the field of integral futures (3)

- ▶ 2/ I defined the meaning of integral futures as complex unit of 3 interconnecting fields – horizontal integration

The meaning of integral futures field

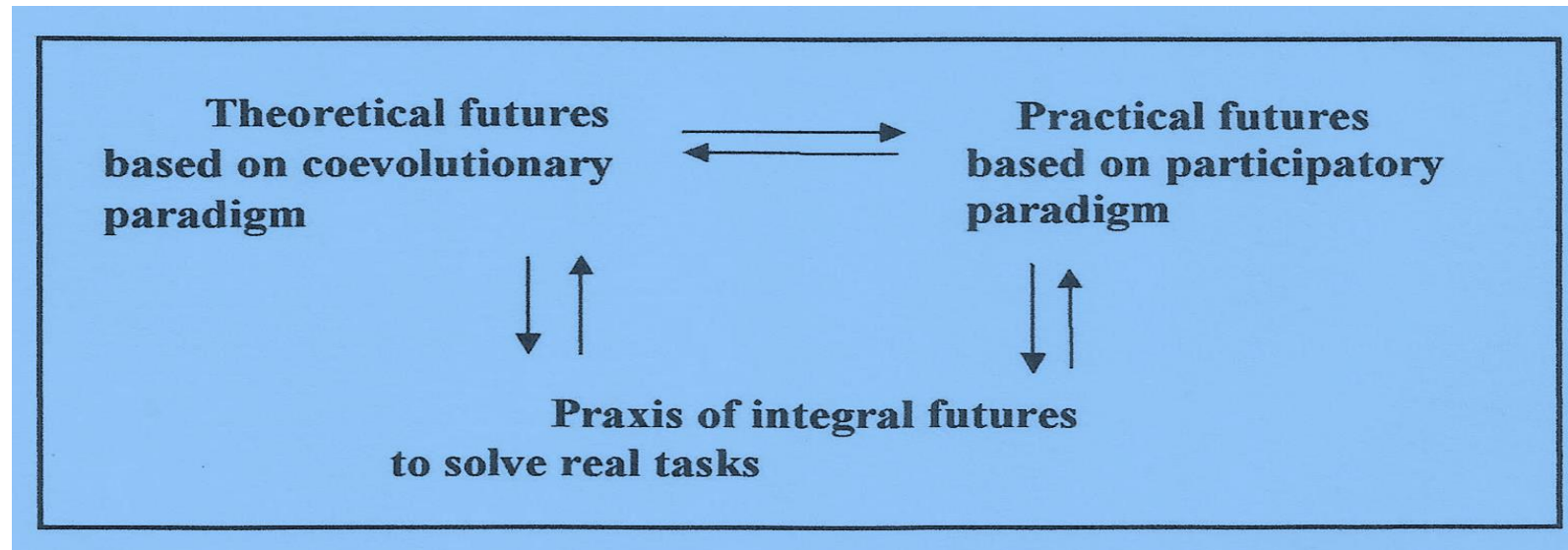


Figure3

Source: Own based on HIDEG 2013 and 2015

My research activities in the field of integral futures (4)

3/ The usefulness of separation and confluence among 3 fields is to solve the next groups of tasks - integration on complexity

Tasks that can be solved by integral futures

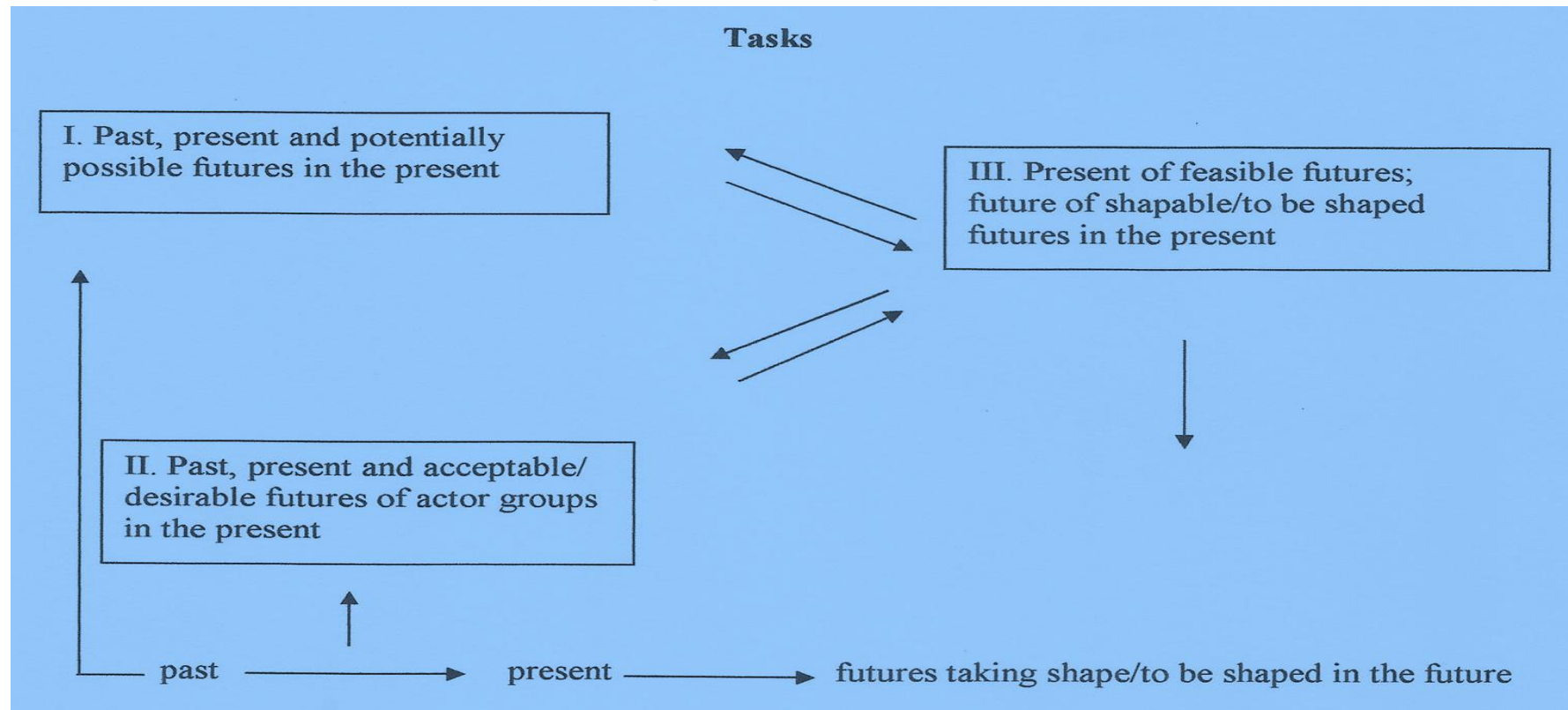


Figure4
Source: Own

My research activities in the field of integral futures (5)

4/ Integration among different future shaping fields – as it is being formed by the praxis – integration on practice

Interconnections among future shaping processes

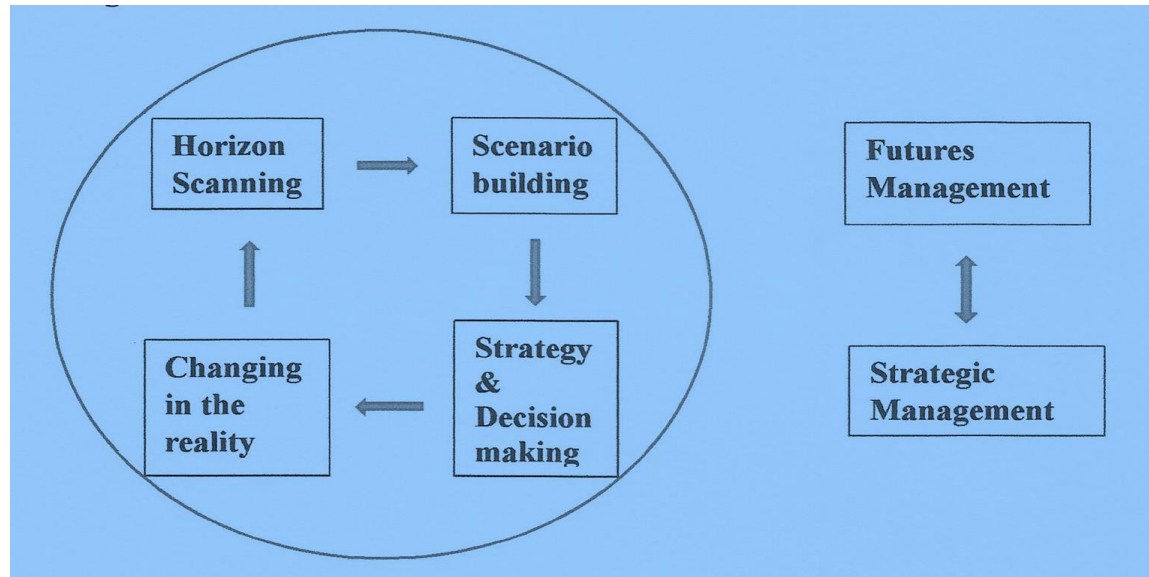


Figure 5
Source: Own

Resent practice - oriented research activities in the field of integral futures at the CUB (1)

► First project:

FOR_V4 project: „Mobilizing Foresight Among V4 Countries” (2016-2017) Visegrad Fund No. 21520129, Available at:
<http://www.visegradforesight.itee.radom.pl/index.php/en/>

Our goals were

- To explore and analysis **the state of art in the field of foresight** in Visegrad countries
- **To teach the 2 dimension and participative scenario building** to managers or businessmen in a workshop
- **To develop the foresight intelligence of businessmen**

Our option was: the businessmen participated will apply and disseminate this way of thinking about the future

Resent practice - oriented research activities in the field of integral futures at the CUB (2)



Scenario Building Workshop in Prague – 2016

Figure 6

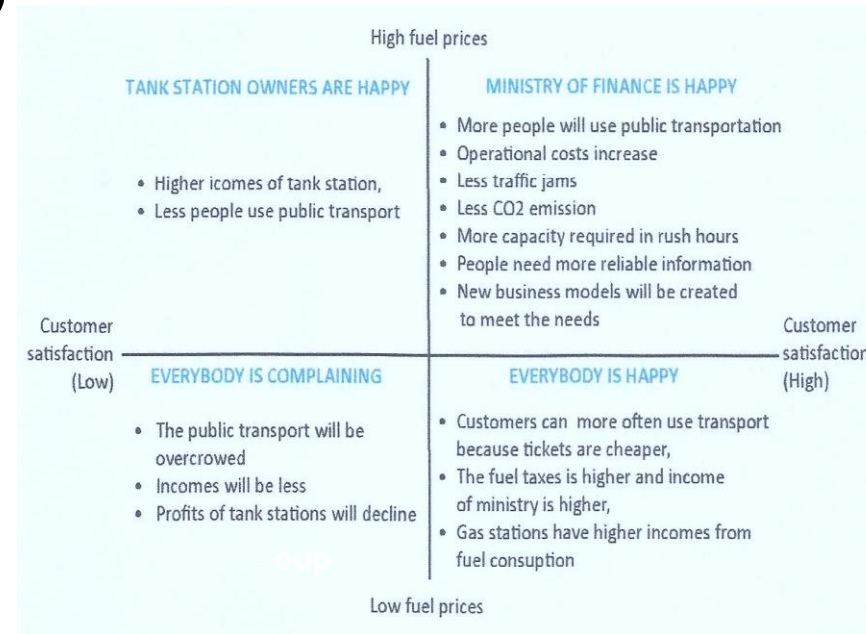
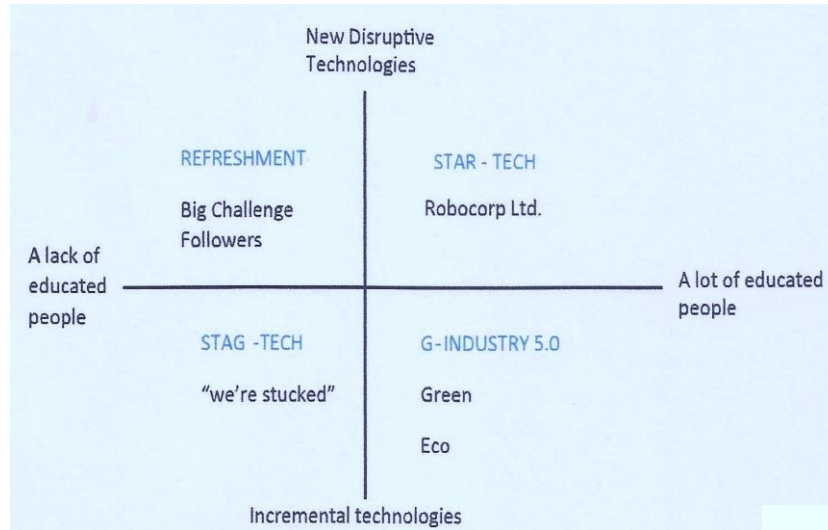
Source: <http://www.visegradforesight.itee.radom.pl/index.php/en/>

Resent practice - oriented research activities in the field of integral futures at the CUB (3)

- ▶ **Results:**
- ▶ **Foresight** and especially the business one is **underdeveloped** in the practice of Visegrad countries
- ▶ Businessmen deal only with their future **at ad hoc level**
- ▶ The businessmen participated in our workshop **were engaged eagerly** in the process of scenario building
- ▶ **3 groups were organized** who had got to their desirable scenario versions
- ▶ Every groups focused on **the future of business in Visegrad countries as a region**
- ▶ **Scenario building:** driving forces, STEEPVL analysis, choice of 2 axes and exploration of possible scenarios, presentation on the desirable scenarios and dialogue on them.

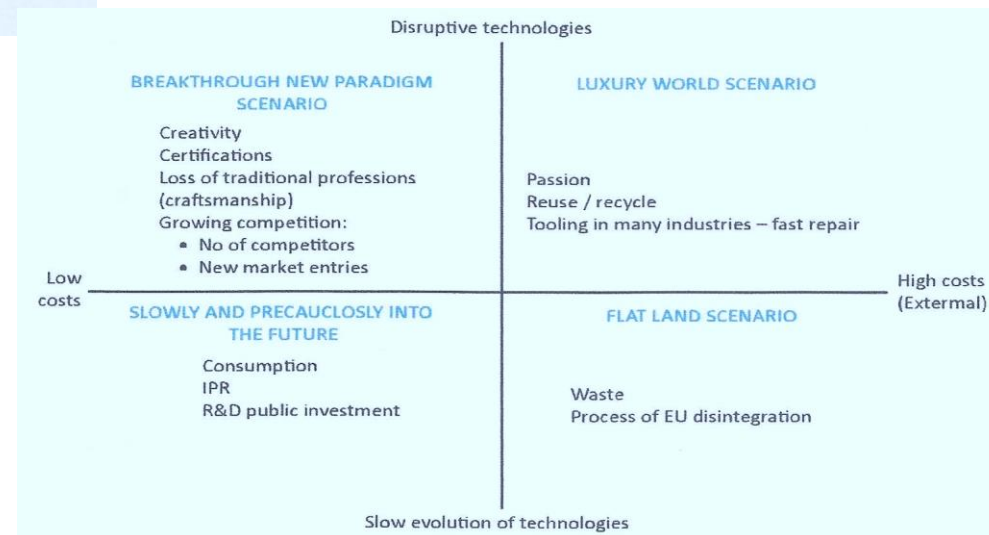
Resent practice - oriented research activities in the field of integral futures at the CUB (4)

Scenarios on 3 groups



Desirable futures on groups for V4 region

- Group 1 Green Factory 5.0**
- Group 2 V4 Trans**
- Group 3 3D Company**



Source: Boorova et al. 2016, p.103, 105, 107 and own

Resent practice - oriented research activities in the field of integral futures at the CUB (5)

▶ Second project:

First Horizon Scanning (HS) in Hungary (2016-2019): **‘Environmental Futures: Hungary for 2050’** (GINOP-2.3.2-15-2016-00019 project) initiated and sponsored by the MTA Centre for Ecological Research.

HS: a future exploration and assessment process during which

- ongoing and new trends,
- weak signals,
- wild cards,
- hypes

are needed to discover by the participation of different stakeholders and experts.

Our supposition was: dynamic confluences among components of natural environment and its artificial, human environment until 2050

Resent practice - oriented research activities in the field of integral futures at the CUB (6)

Purposes were

- To map the possible changes in **natural and human ecological systems**
- To show possible future **interactions between ecological and non-ecological components** for forming further research topics

Approach to the research subject of HS

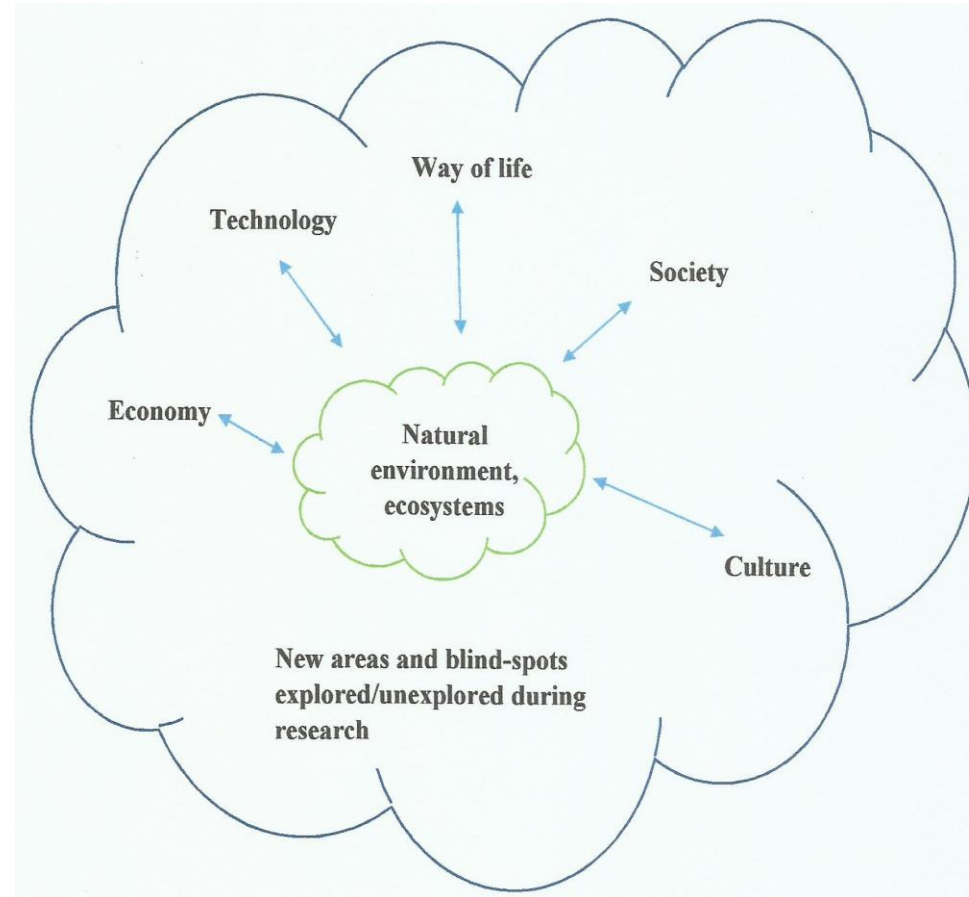


Figure 7
Source: Own

Resent practice - oriented research activities in the field of integral futures at the CUB (7)

An interdisciplinary research team consisting of ecologists and professional futurists (7 persons) + about 50 participant (stakeholders) from different research fields and STI policy forming field – **We were working very busy**



Figure 10, Source: Own

Resent practice - oriented research activities in the field of integral futures at the CUB (8)

The flowchart of our HS process

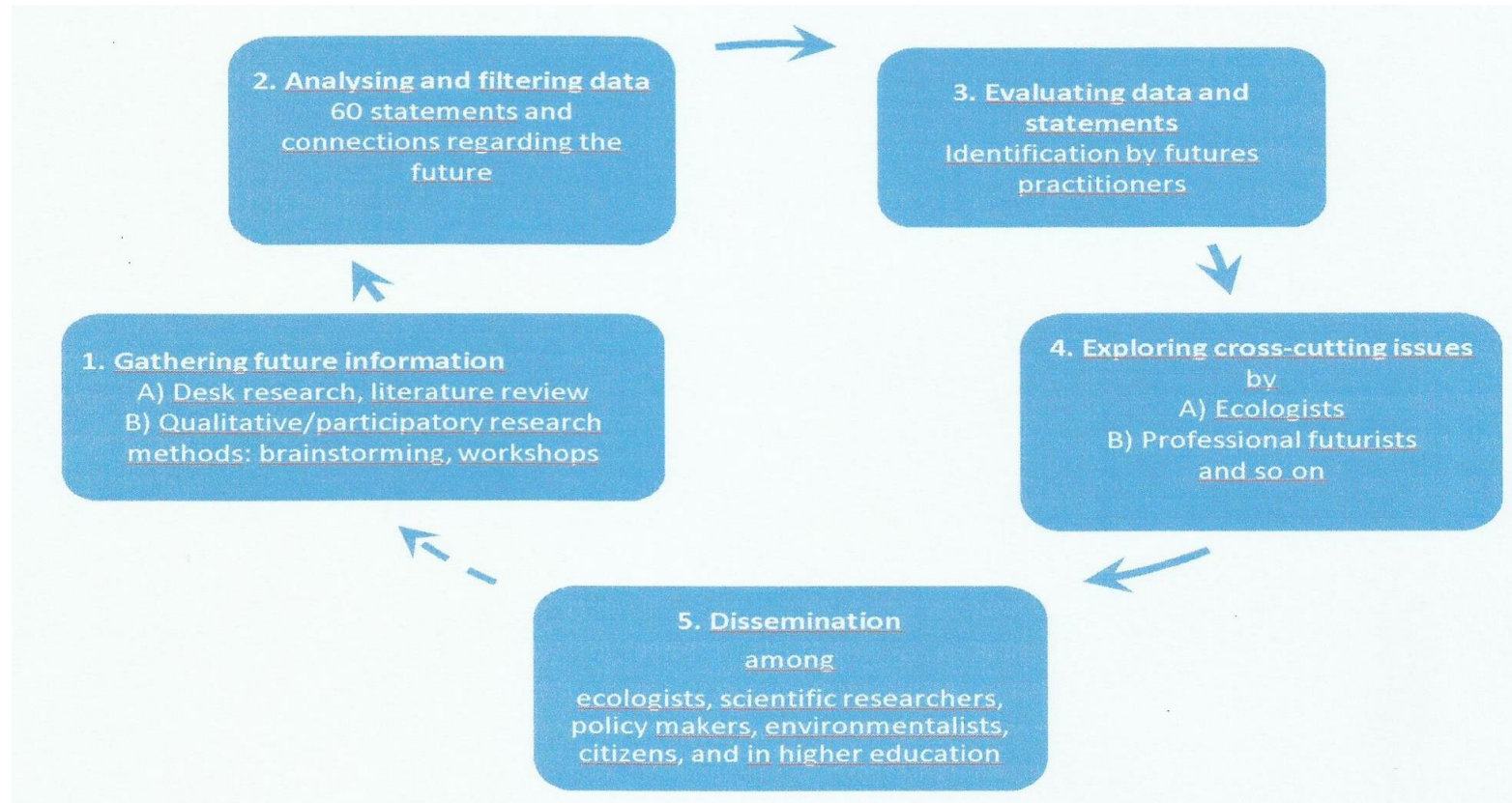


Figure 11, Source: Own

Resent practice - oriented research activities in the field of integral futures at the CUB (9)

▶ Results:

- 40-45 future statements had proved important as different types of future forming powers or factors

- The opinions and assessment of different groups of stakeholders are very different

- The young business developers could cooperate with and intermediate among different scientific research groups

- STI and economic policy makers can use our findings to shape the interconnections between nature and society in Hungary until 2050

One example of our results - The structured, interconnected and panoramic pattern of categorization and assessment by professional futurists

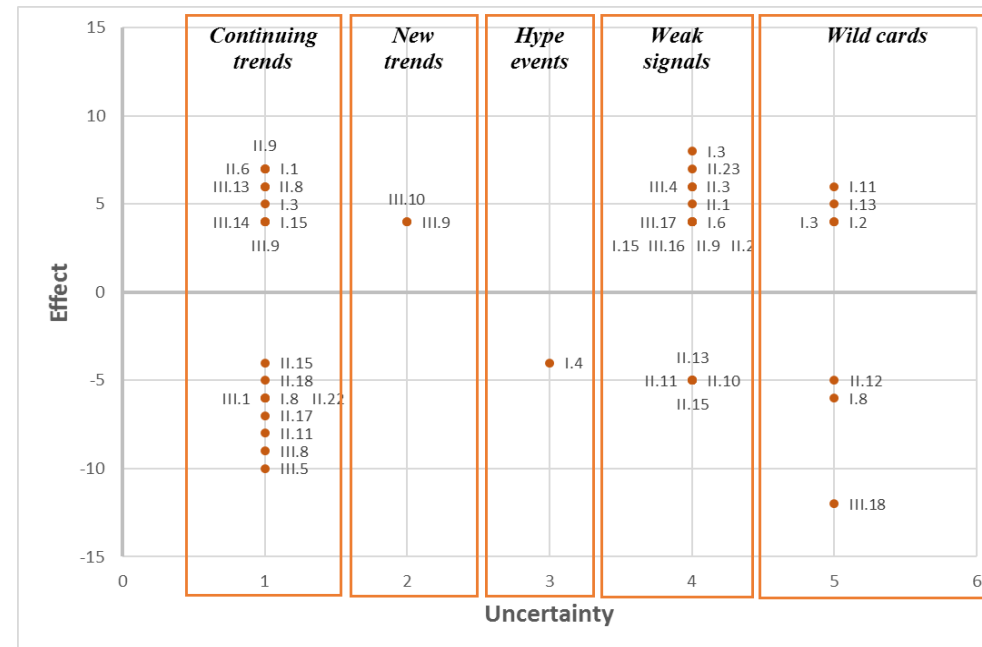


Figure 12, Source: Own

Resent practice - oriented research activities in the field of integral futures at the CUB (10)

Fresh practice - oriented publications in English language

- ▶ *Hideg, É., Gáspár, J., Báldi, A. (2018): First Horizon Scanning in Hungary.* p10. (33000k) Conference proceedings, FTA2018. Future-oriented Technology Analysis, Future in the Making. European Commissions's Science and Knowledge Service.
<https://ec.europa.eu/jrc/sites/jrcsh/files/fta2018-paper-c2-hideg.pdf>
<https://ec.europa.eu/jrc/en/page/fta2018-presentations-contributions>
- ▶ Sacio-Szymańska, A., Kononiuk, A., Tommei, S., Valenta, O., *Hideg, E., Gáspár, J., Markovič, P., Gubová, K., Boorová, B. (2016): The Future of Business in Visegrad Region.* *European Journal of Futures Research* 4: 26, 16DOI: 10.1007/s40309-016-0103-3, open access, ISSN: 2195-4194, <http://link.springer.com/article/10.1007%2Fs40309-016-0103-3>
- ▶ Boorová, B., *Demus, T., Gáspár, J., Hideg, É., Kardas, M., Kononiuk, A., Markovič, P., Nosarzewski, K., Sacio-Szymańska, A., Sugár, M., Tommei, S., Tyukodi, G., Valenta, O.,* ed. Sacio-Szymańska, A. (2016): **Corporate Foresight Potential in Visegrad (V4)**

Resent teaching activities in the futures field at the CUB (1)

We are present in teaching of futures fields at every level of university education

▶ At BA level

Introduction to the futures studies – facultative course, in Hungarian language

▶ At MA level

Economic and social forecasts - compulsory course for students of Specialization of Business Development, in Hungarian language

Futures Studies - facultative course, in Hungarian language

Alternative future images - facultative course, in Hungarian and English language

Resent teaching activities in the futures field at the CUB (2)

▶ Aim

To develop **futures literacy, future orientation, futures intelligence and stakeholders' competences** of students depending on the training level

▶ Teaching method

„Lectures and interactive seminars tandem” with a lot of group work

Above them *Judit Gáspár* and *András Márton* teach forecasting and foresight topics **as a part of courses dealing with strategy and decision making.**

Resent teaching activities in the futures field at the CUB (3)

At PhD level

This is the space for training of professional futurists

There is a **Futures Studies Specialization at the Doctoral School of Economic Informatics** with 4 special courses focusing on theoretical, methodological and method developing issues. **These are:**

- ▶ From forecasting to foresight
- ▶ Integral futures studies
- ▶ Futures methods
- ▶ Meta-theory and meta-analysis

PhD students are involved in our research works.

Thank you for your attention!