



MINISTRY
OF AGRICULTURE

Environmental implications of global megatrends in Hungary



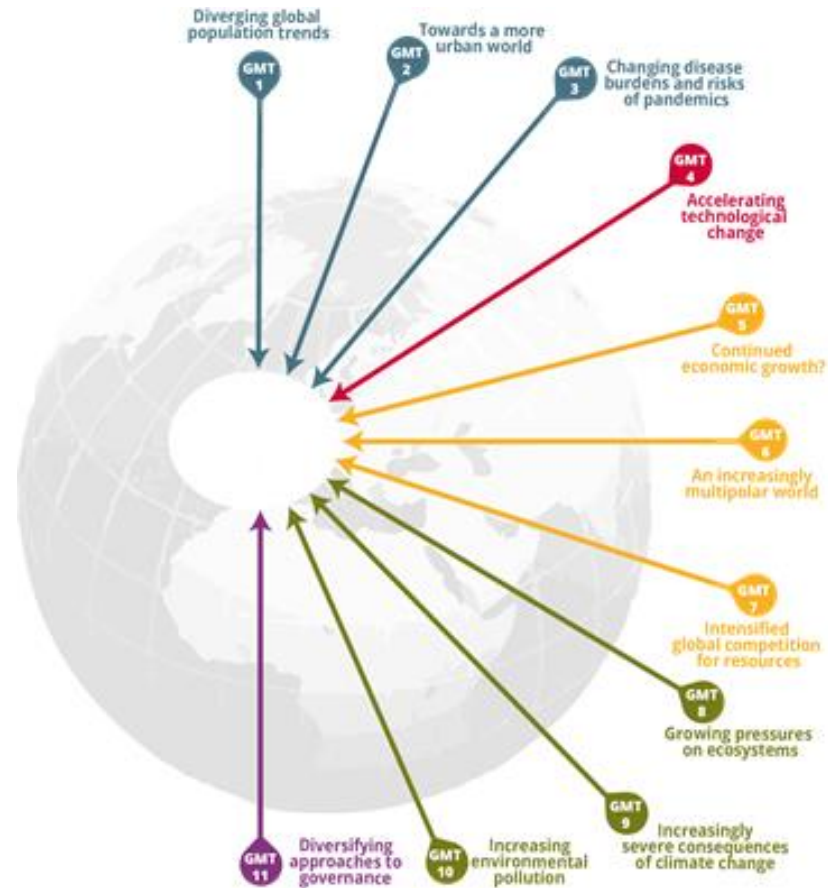
6th of March 2017

MEGATREND

Megatrend indicates a widespread and long-term social, economic, environmental, political or technological change that is slow to form but has a major impact once in place.

Megatrends influence a wide range of activities, processes and perceptions in a system, such as an ecosystem, a sector or a region, possibly for decades.

Megatrend as a process of transformation is composed of sub-trends which in themselves are capable of major impacts.



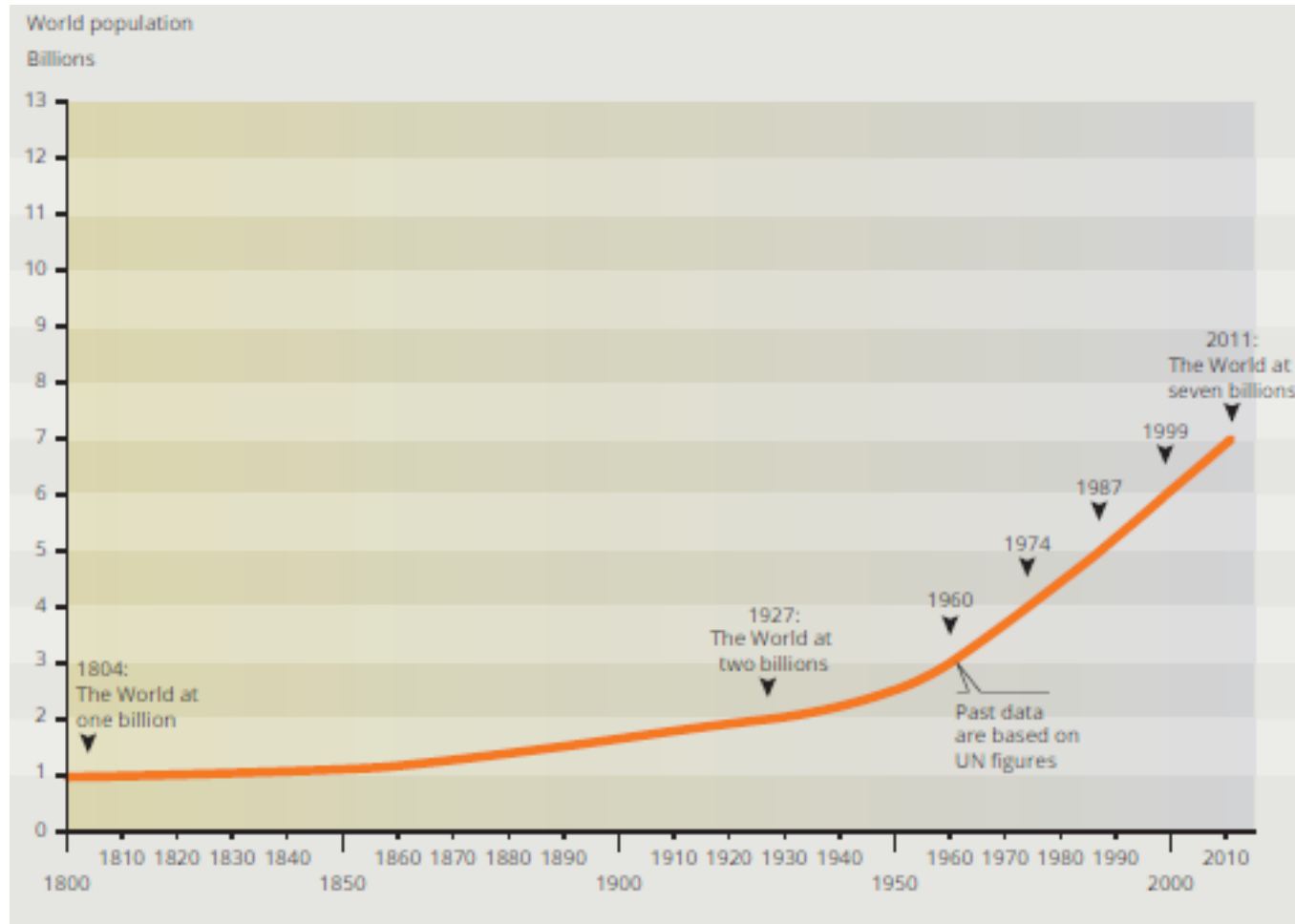
Resource:

Foresight Dictionary http://forum.eionet.europa.eu/nrc-flis/portal_glossary/glossary

BY MIKLÓS MARTON

GLOBAL MEGATRENDS – GLOBÁLIS MEGATRENDEK

1. Diverging global population trends (Eltérő népesedési folyamatok a világban)



*World population historic trend
(A világ népességének alakulása (milliárd fő))*

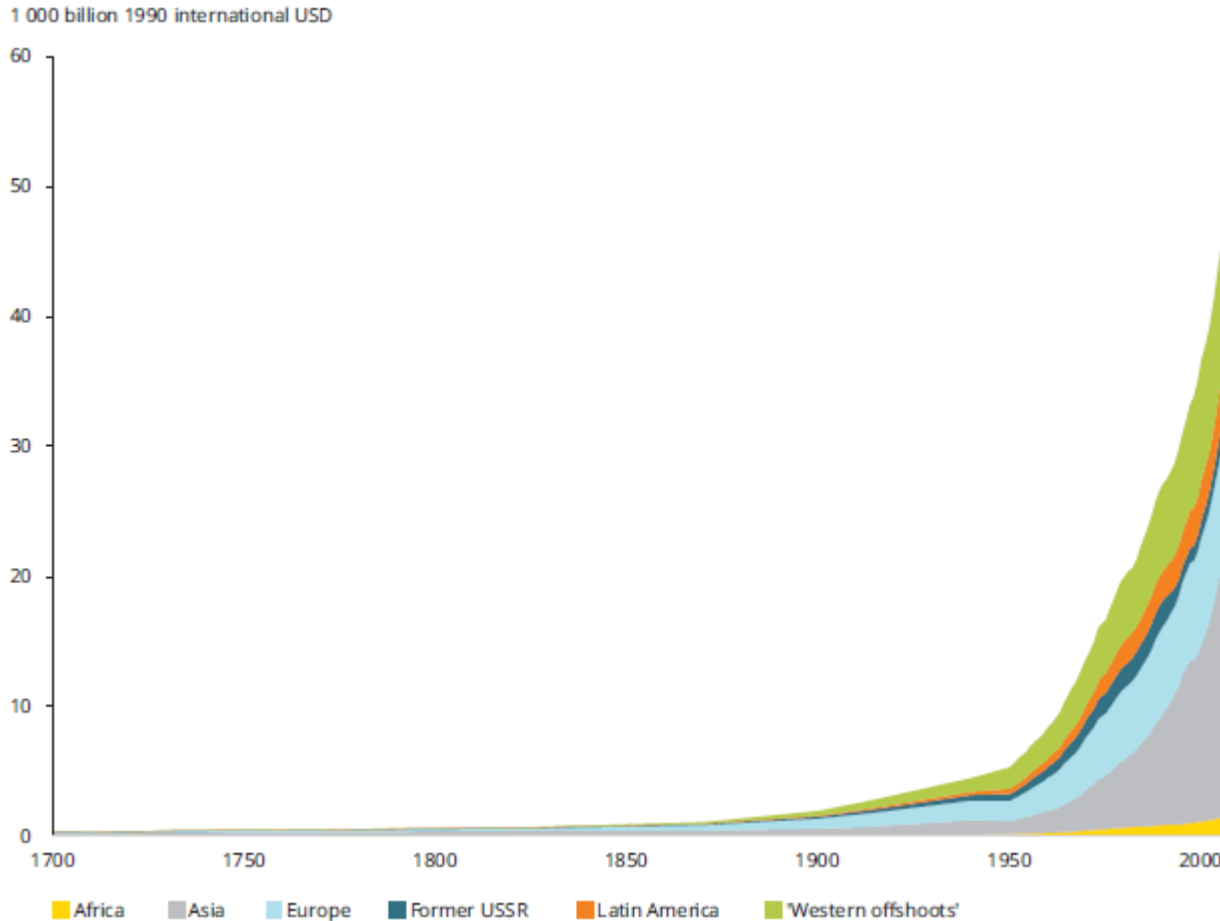
Resource:

Global megatrends assessment (17) <http://www.eea.europa.eu/publications/global-megatrends-assessment-extended-background-analysis>

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GLOBAL MEGATRENDS – GLOBÁLIS MEGATRENDEK

5. Continued economic growth? (Folyamatos gazdasági növekedés?)



GDP 1700 - 2000

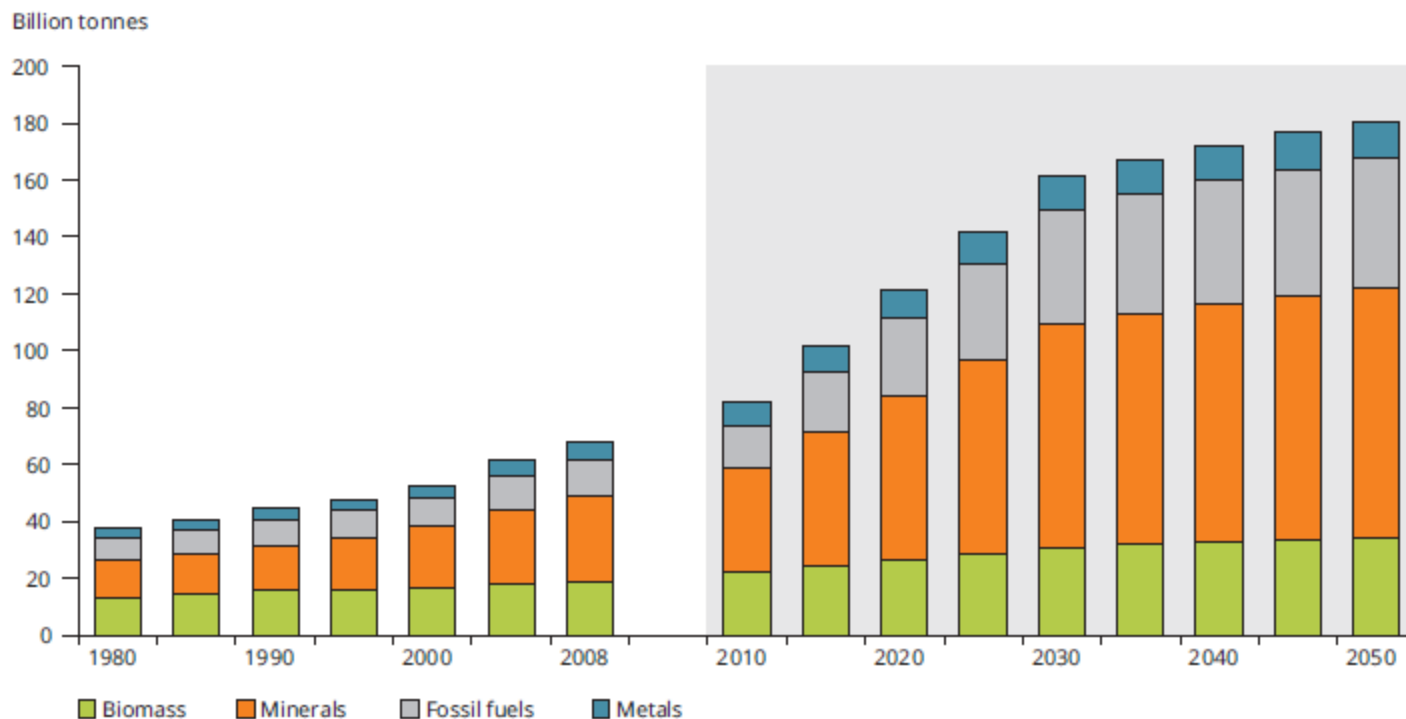
Resource:

Global megatrends assessment (85) <http://www.eea.europa.eu/publications/global-megatrends-assessment-extended-background-analysis>

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GLOBAL MEGATRENDS – GLOBÁLIS MEGATRENDEK

7. Intensified global competition for resources (Fokozódó verseny az erőforrásokért)



*Global resource extraction by material category, 1980–2008 and projections for 2010–2050
(Globális nyersanyag kitermelés anyagcsoportonként – adatok és becslés 1980 - 2050)*

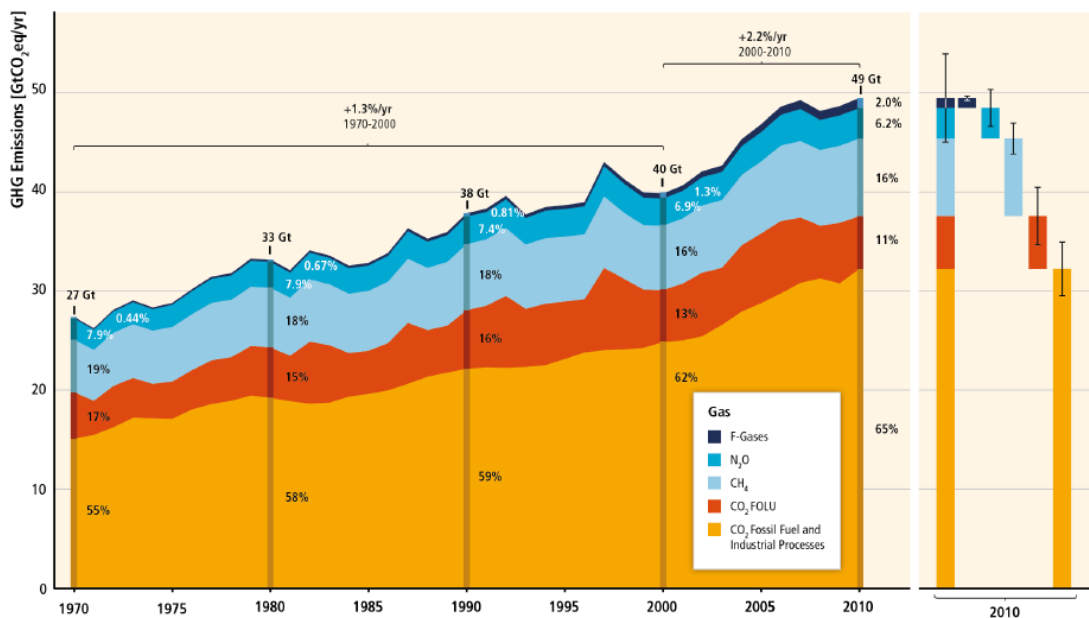
Resource:

Global megatrends assessment (106) <http://www.eea.europa.eu/publications/global-megatrends-assessment-extended-background-analysis>

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GLOBAL MEGATRENDS – GLOBÁLIS MEGATRENDEK

9. Increasingly severe consequences of climate change (Az éghajlatváltozás egyre komolyabb hatásai)



Total annual anthropogenic greenhouse gas emissions, 1970-2010

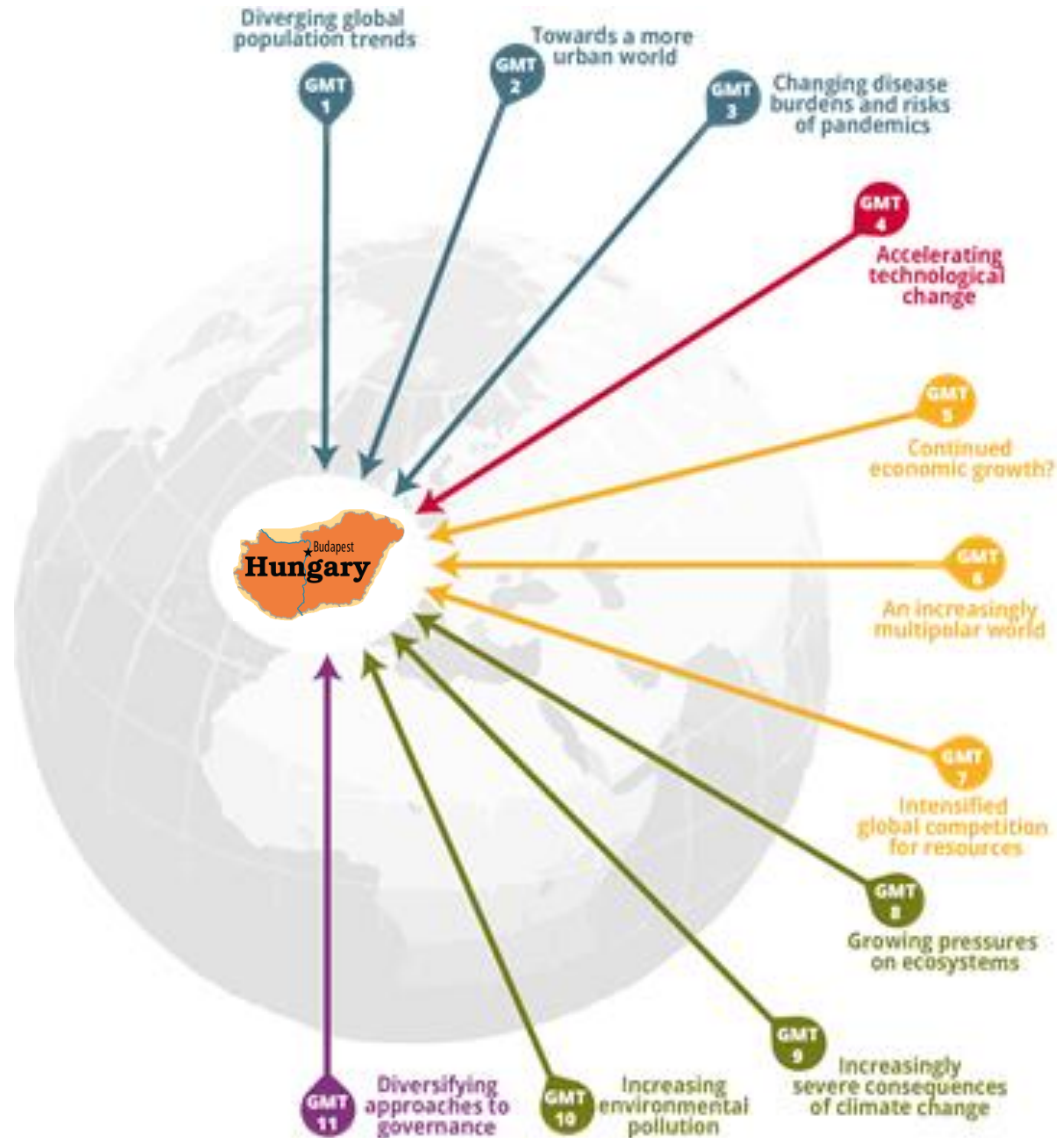
(Emberi tevékenységekből eredő üvegház-gázok kibocsátása)

Resource:

Global megatrends assessment (129) <http://www.eea.europa.eu/publications/global-megatrends-assessment-extended-background-analysis>

BY MIKLÓS MARTON

MEGATREND



**MAPPING EUROPE'S FUTURE:
UNDERSTANDING THE IMPACTS OF GLOBAL MEGATRENDS
AT THE NATIONAL LEVEL**

METHOD AND HANDBOOK

OCTOBER 2015



FÖLDMŰVELÉSÜGYI
MINISZTERIUM



European
Environment
Agency

Globális megatrendek környezeti hatásai Magyarországon

0.5 munkaközi verzió

Globális megatrendek környezeti hatásai Magyarországon

1. **Lessening natural habitats (14 points)**
2. **Extreme weather patterns (floods, droughts) (12 points)**
3. **Health aspects of climate change (premature death, contagious diseases) (9 points)**
4. **Growing emission of pollutants (9 points)**
5. **Growing water demands – decreasing potable water assets (9 points)**
6. **Adverse effects of free trade agreements to Hungary (7 points)**
7. **Transformation of natural ecosystems (less native species, more invasive species) (6 points)**
8. **Hungary becomes destination of migration (6 points)**
9. **Deterioration of ecosystem services (5 points)**
10. **Waste management (4 points)**
11. **+ Alternative energy use gains attention (3 points)**
12. **Soil in quantitative and qualitative danger (3 points)**
13. **+ Effective material use gains attention (3 points)**
14. **Lessening and ageing society (2 points)**
15. **Degradation of (surface and groundwater) water bases (2 points)**
16. **Longer allergic season (2 points)**
17. **Harmful effects of biologic renewable energy use (2 points)**
18. **Extreme hydrological events (droughts, floods) (2 points)**
19. **Growing differences between generations (1 points)**
20. **Going out of natural resource stocks (1 points)**
21. **+ Research and innovation gains attention (1 points)**
22. **Hybrid wars (0 points)**
23. **Basic systems go beyond price (0 points)**
24. **Overloaded health and social system (ageing society) (0 points)**
25. **Collapse of pension system (0 points)**
26. **Extreme political powers gain attention (0 points)**
27. **Issues of housing estates (energy efficiency, mental hygiene) (0 points)**
28. **+ disadvantages of little settlements drops (0 points)**
29. **Food supply endangered (e.g. „no maize yields in future”) (0 points)**
30. **+ Longer growing season (0 points)**
31. **Less days with frost (0 points)**
32. **Pests do not freeze during winter (0 points)**
33. **Developing countries attract investors (0 points)**
34. **Degradation of soils (0 points)**
35. **Vulnerability and lessening of soils (due to urbanism) (0 points)**
36. **Further invasive species appear (0 points)**
37. **Weakening little settlements (0 points)**
38. **Deterioration of air quality (0 points)**
39. **Growing social and political tensions (0 points)**
40. **Forest fires become more frequent (0 points)**
41. **Forest stocks deterioration (0 points)**
42. **Resistivity of habitats declines (0 points)**
43. **+ Migration of species may alter (e.g. birds), population may rise (0 points)**

Globális megatrendek környezeti hatásai Magyarországon

1. **Lessening natural habitats, transformation of natural ecosystems (less native species, more invasive species), deterioration of ecosystem services**
2. Extreme weather patterns (floods, droughts)
3. Health aspects of climate change (premature death, contagious diseases)
4. **Growing air pollution**
5. Growing water demands – decreasing potable water assets
6. Adverse effects of free trade agreements to Hungary
7. Hungary becomes destination of migration
8. Waste management
9. **Soil in quantitative and qualitative danger**
10. + Alternative energy use gains attention
11. + Effective material use gains attention

The project is progressing very well, and is likely to be published during summer in Hungarian language, and in September in English.

What we need is good practices, examples to follow. So...

Break-out groups

11:00 – 11:45

Biodiversity, nature conservation

(Moderator: Magdolna Sztarenszky Farkasné)

Soil use, soil quantity, soil quality

(Moderator: Miklós Marton)

Air quality

(Moderator: Krisztina Teréz Szabó)

**Biodiversity,
nature
conservation**



**Soil use,
soil quantity,
soil quality**



Air quality



Please collect possible best practices!

