



Megatrends I

- world's population
- rapid increase in urban population
- climate change and environmental degradation
- increasing water scarcity
- increasing energy demand
- increasing urban sprawl



Urban and regional planning

It is essential to plan for the future in order to meet the needs of the present and future generations. This requires a long-term perspective and a holistic approach.

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Megatrends II

- increasing global urbanization
- increasing water scarcity
- increasing energy demand
- increasing urban sprawl
- increasing environmental degradation
- increasing climate change
- increasing water scarcity
- increasing energy demand
- increasing urban sprawl
- increasing environmental degradation



Working 5-step framework:

1. Identify global trends
2. Identify local conditions, drivers and constraints
3. Identify potential water scenarios and energy-saving scenarios
4. Identify strategies to meet the future with Megatrends
5. Identify policies, programs, financial instruments, governance, etc. to meet the future

Conclusions

Working with Megatrends is a challenge for the urban transformation. Solutions and methods to achieve universal goals are context dependent.

Working with Megatrends

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12th International Symposium on Urban Planning and Environment
1th UPE Lusophone Symposium



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Megatrends?

- a set of long-term trends that will shape the world's environment, society, and politics over the next 100 years
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• How are affected by various Megatrends in your city/region?

• Do you know the current and projected prices on energy markets for the next 100 years? How do you think they will change?

• How do you think the world's population will change in the next 100 years?

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Impacts of the world?

1. The world's population will reach 10 billion by 2050
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5. The world's population will reach 10 billion by 2050
6. The world's population will reach 10 billion by 2050
7. The world's population will reach 10 billion by 2050
8. The world's population will reach 10 billion by 2050



Developing 5-step framework:

1. Identify global trends
2. Research local conditions, drivers
3. Identify global emissions, make scenarios, compare and integrate existing policies
4. Measure a strategy to meet local needs (with Megatrends)
5. Day activities, emissions, flexible - transition to a process, it has to be flexible

Conclusions

Working with Megatrends is a challenge for the positive transformation

Indicators and methods to achieve national goals are context dependent

Working with Megatrends

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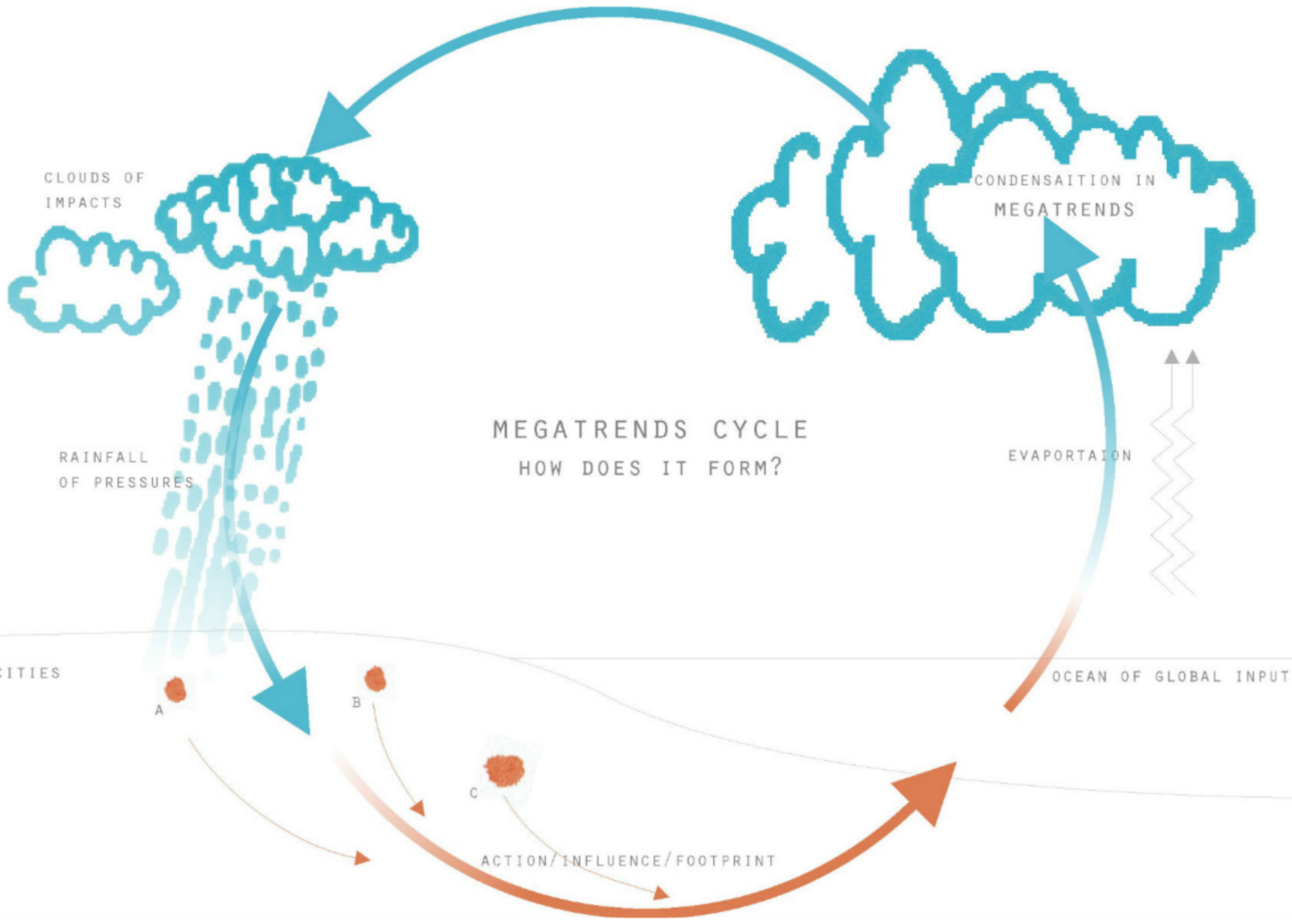
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Megatrends ?

- *overall tendency, process*
- *recognized on a large, global scale*
- *shape social, economic and environmental setting (JPI Urban Europe, 2014)*
- *set general direction of development*
- *mainstream, common, worldwide*

- *cause impact on urban life*
 - *both positive and challenging*

MEGATRENDS CYCLE
HOW DOES IT FORM?



CLOUDS OF IMPACTS

CONDENSATION IN MEGATRENDS

RAINFALL OF PRESSURES

EVAPORTATION

CITIES

OCEAN OF GLOBAL INPUT

ACTION/INFLUENCE/FOOTPRINT

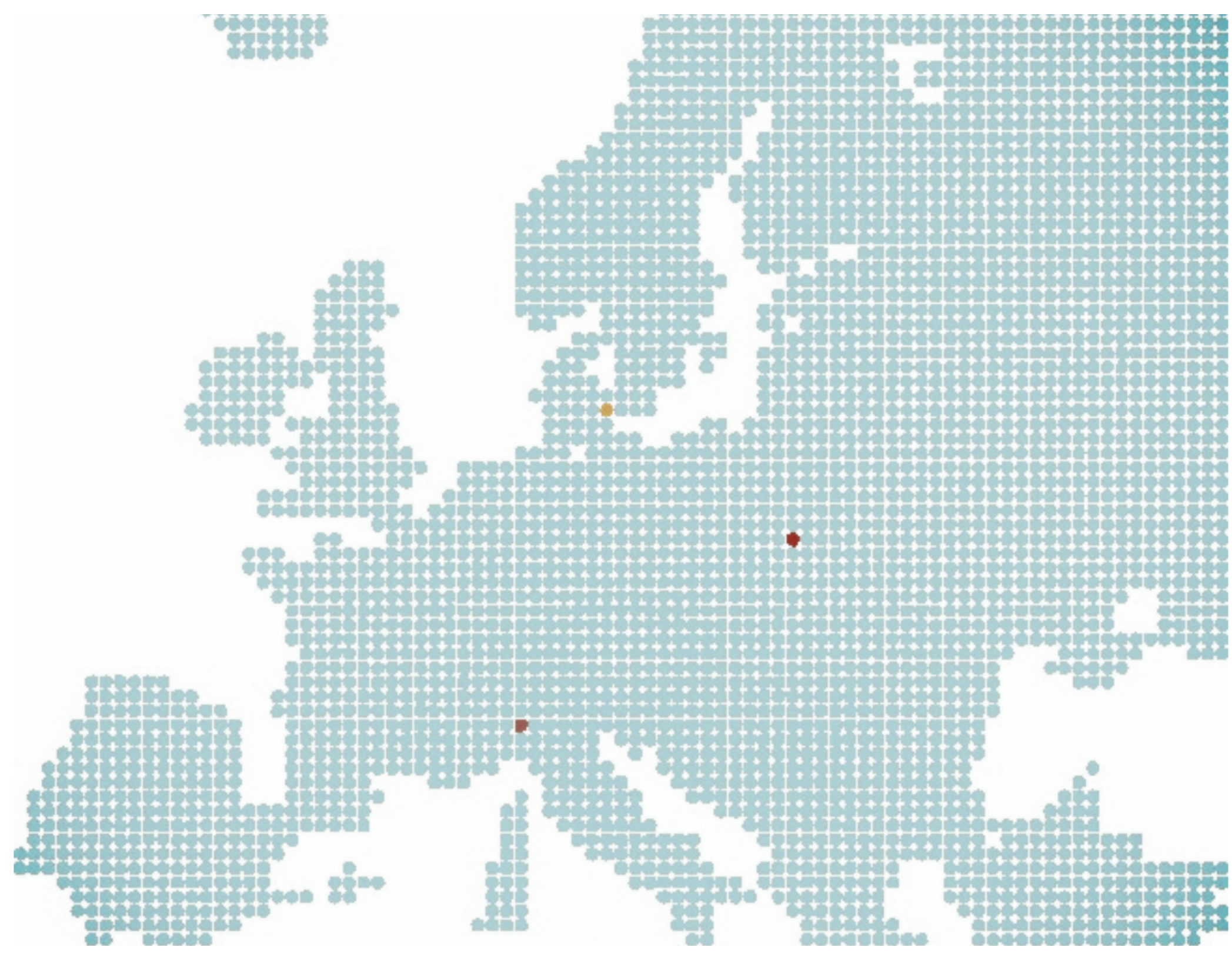
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Megatrends (EEA, 2015) :

- 1. Diverging global population trends*
- 2. Towards a more urban world*
- 3. Changing disease burdens and risks of pandemics*
- 4. Accelerating technological change*
- 5. Continued economic growth*
- 6. An increasingly multipolar world*
- 7. Intensified global competition for resources*
- 8. Growing pressures on ecosystems*
- 9. Increasingly severe consequences of climate change*
- 10. Increasing environmental pollution*
- 11. Diversifying approaches to governance*





Cities are affected by common Megatrends in very different way.

*To facilitate the process and **use global forces as opportunities** for local improvement, we need to understand the **connection between global trends and local effects**, and then navigate actions in appropriate and relevant way.*



*Cities undergo a transformation
- **transition** (Hopkins, 2011).*

***Strategic approach** helps to address global challenges, and work with them locally.*

***Successful transition strategy** is not generic, therefore will differ from city to city.*

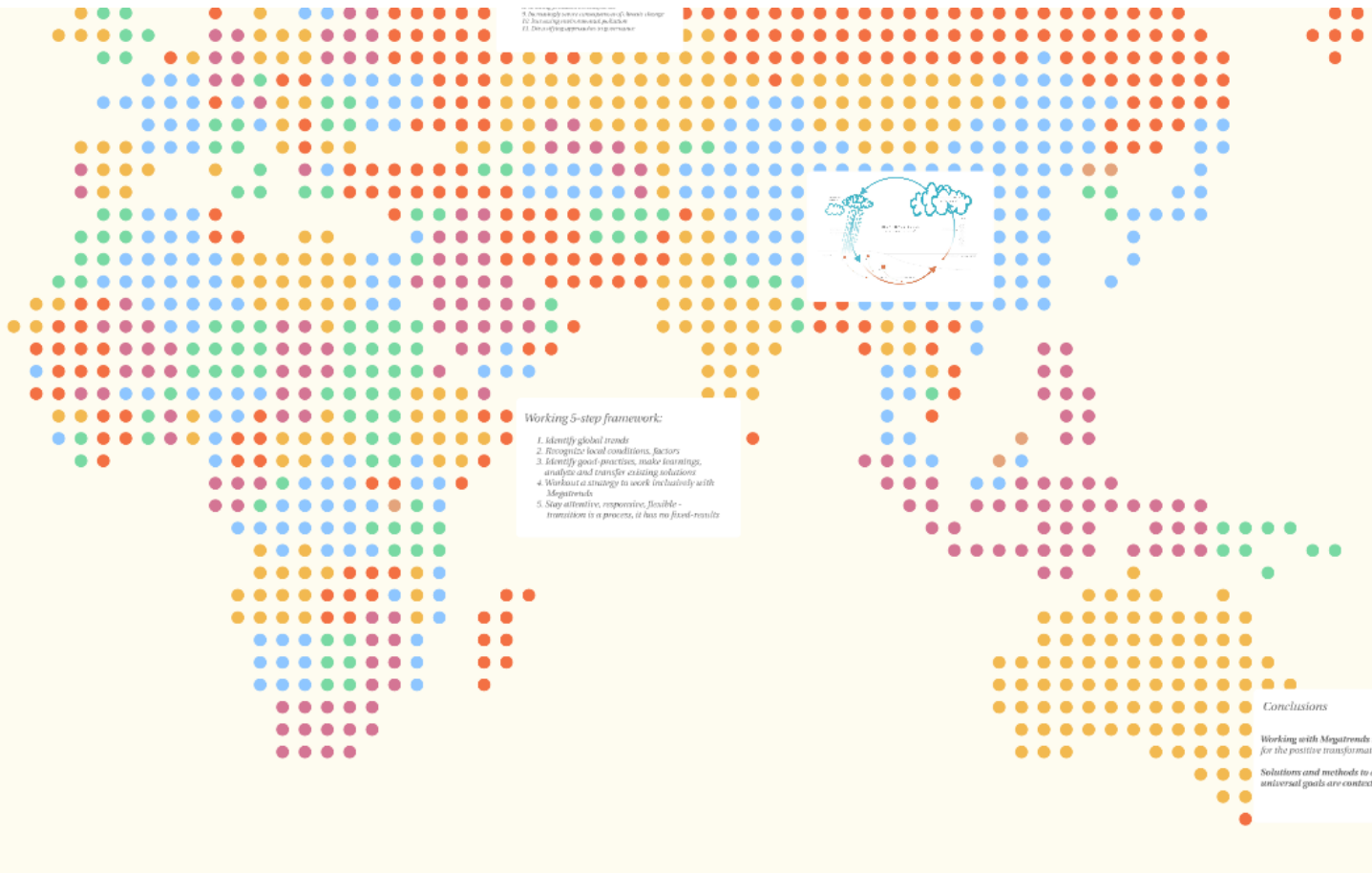
Working 5-step framework:

- 1. Identify global trends*
- 2. Recognize local conditions, factors*
- 3. Identify good-practises, make learnings, analyze and transfer existing solutions*
- 4. Workout a strategy to work inclusively with Megatrends*
- 5. Stay attentive, responsive, flexible - transition is a process, it has no fixed-results*

Conclusions

Working with Megatrends is a condition for the positive transformation.

Solutions and methods to achieve universal goals are context dependent.



1. Identify global trends
2. Recognize local conditions, factors
3. Identify good practices, make learning, analysis and transfer existing solutions
4. Work out a strategy to work inclusively with Megatrends
5. Stay attentive, responsive, flexible - transition is a process, it has no fixed results

Working 5-step framework:

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