

The Northern Areas - Possibilities for New Technology and Tech-knowledgy

NRF

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Setting the scene

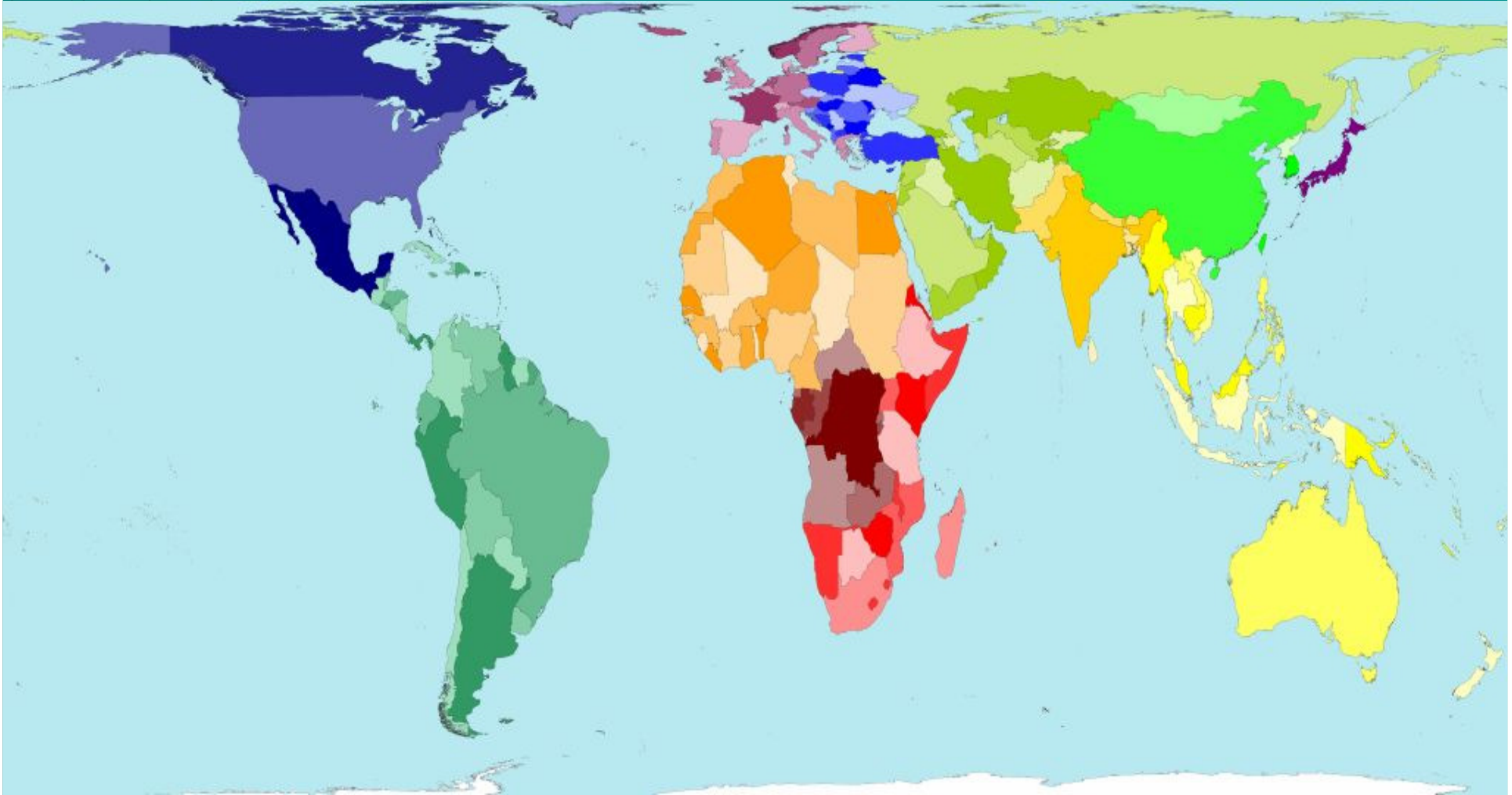
- ◆ We are on "red" numbers in Environmental cash-flow and this has to be changed
- ◆ Good life (human rights, education, decent income) is based on sustainable (business) growth and the big challenges of the Globe can be successfully resolved via this development
- ◆ People behave rationally when all other possibilities have been used

Strengths of Northern Areas

- ◆ People are used to face the hard climate and plan how to survive
- ◆ "Only" maritime borders frame the historical borderless cooperation
- ◆ Natural resources (Gas, oil, water,...)
- ◆ Strong indigenous knowledge

Land Area of the Globe

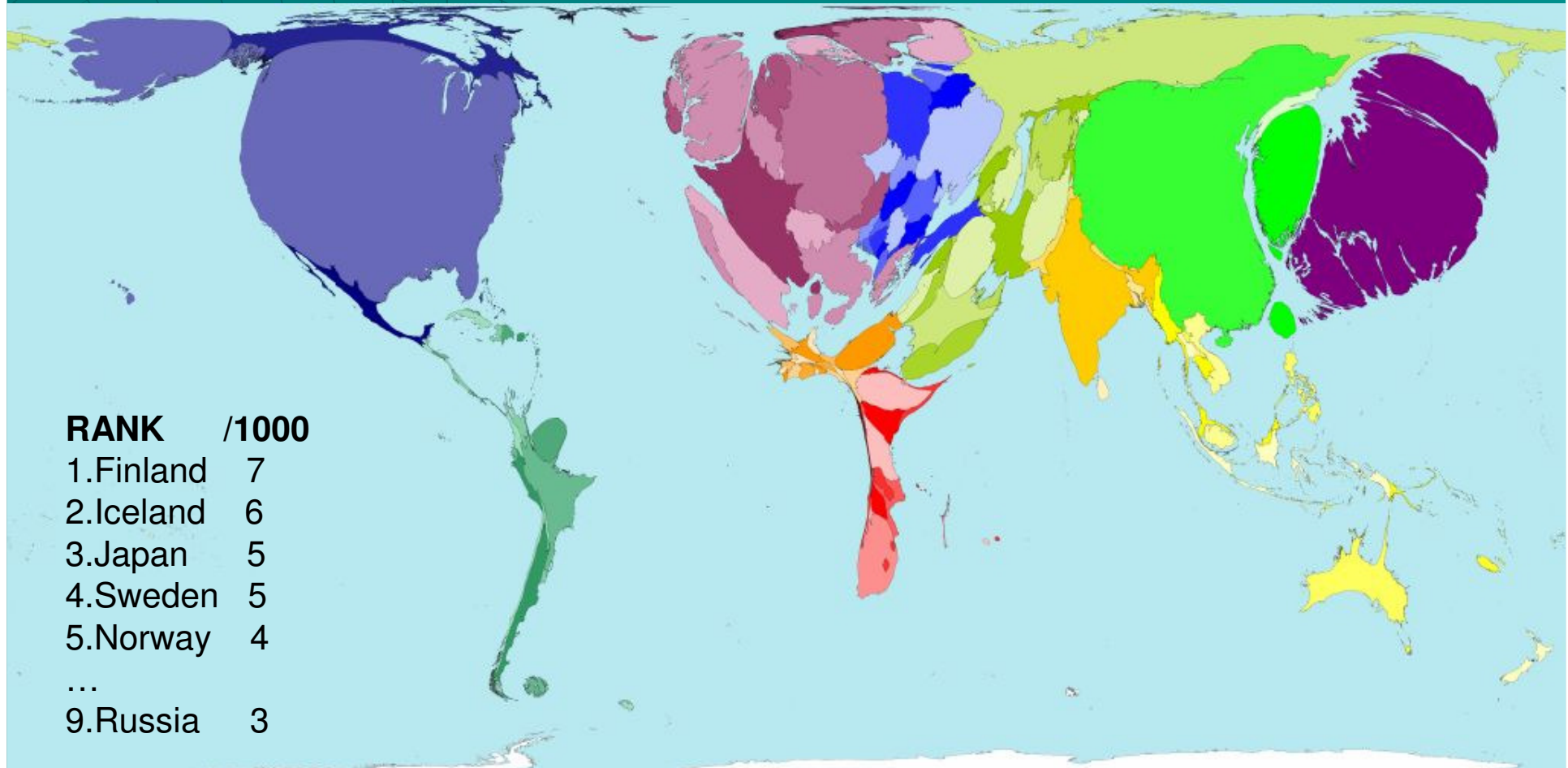
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Weaknesses of the Northern Areas

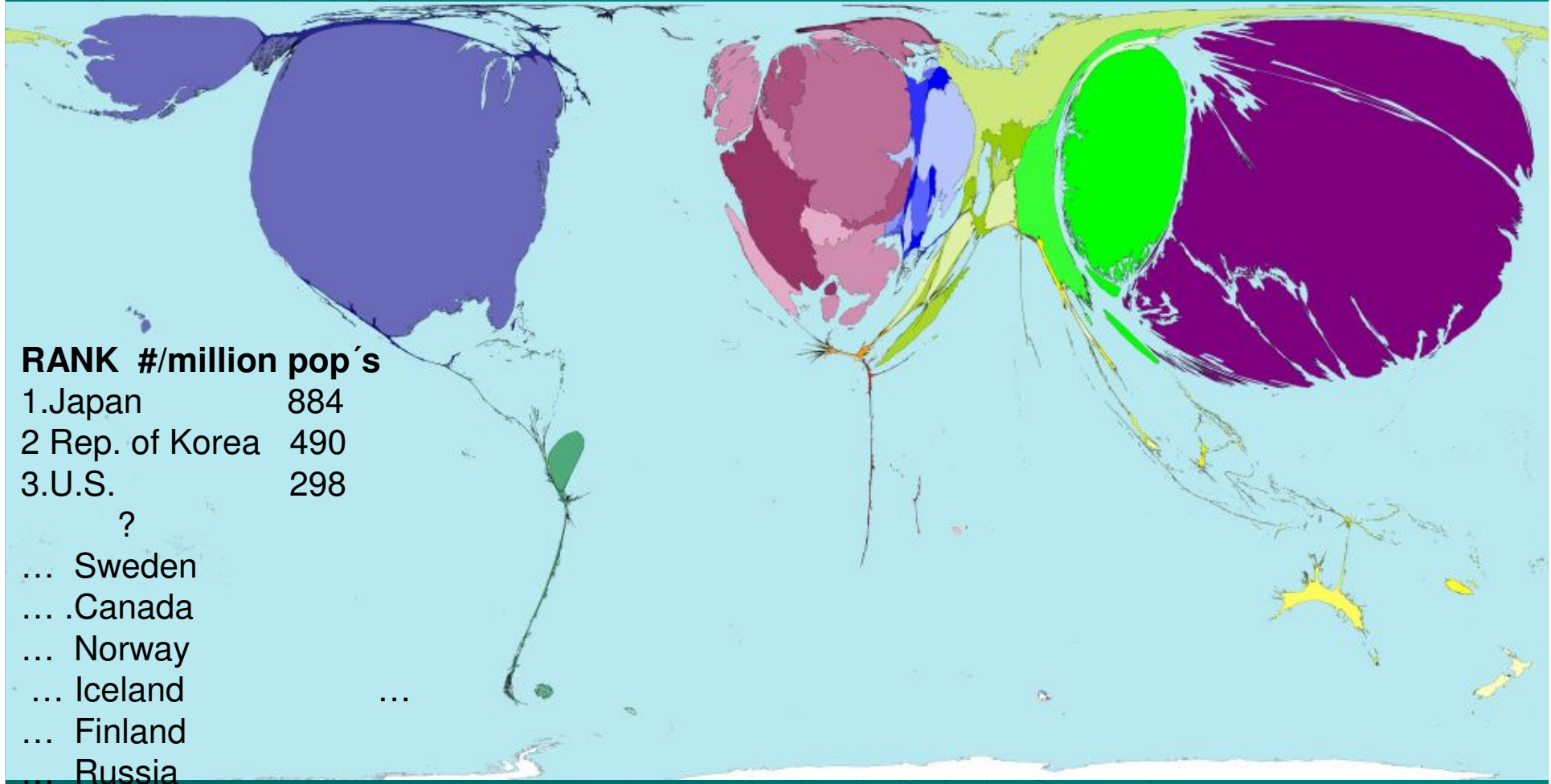
- ◆ Scarce population -long distances
- ◆ Tech-knowledgy of the North applies only to a small part of the Globe's population?
- ◆ Many of the natural resources expensive to utilise
- ◆ Focus difficult to achieve?

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- ◆ Scarce population -long distances
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- ◆ Many of the natural resources expensive to utilise
- ◆ Focus difficult to achieve?
- ◆ Lack of self-confidence?

Patents Granted

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Opportunities

- ◆ The global world is a network and it is crucial to be/have one of the "NODES" !
- ◆ Universities act as a good and sustainable basis for these global nodes (vs. clusters, networks)
- ◆ Open-source development to catch the Northern "Tech-knowledge"
- ◆ Modern value-added is created also via weak network links

Opportunities

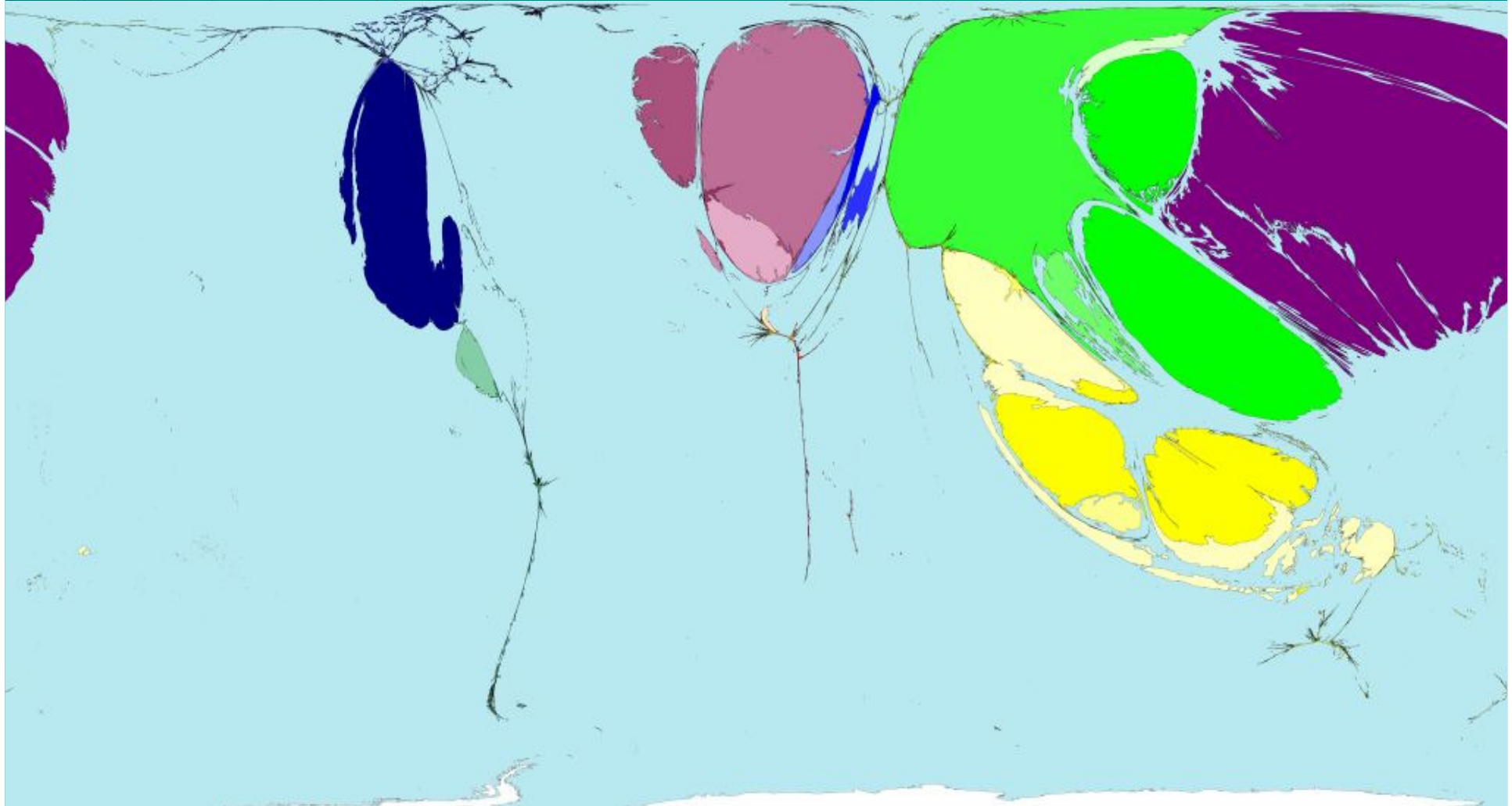
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- ◆ Universities act as a good and sustainable basis for these global nodes (vs. clusters, networks)
- ◆ Open-source development to catch the Northern "Tech-knowledge"
- ◆ BUT: Focus, focus, focus,...
This also means to say "no" to many things

Technology for new Tech-knowledgy

- ◆ Mobile broadband i.e. Internet in your pocket
 - "Bits" are the most cost effective "material"
- ◆ All wireless solutions
 - NearFieldCommunication – rfid,
 - LocationBasedServices
 - Nano applications
- ◆ Cross-fertilization
 - Mobile/Bio/Health/Well-being
 - Energy and clean environment
 - Cold/extreme climate solutions
- ◆ Energy
 - Storing/buffering of "clean energy"
 - Nano applications

Electronics Exports

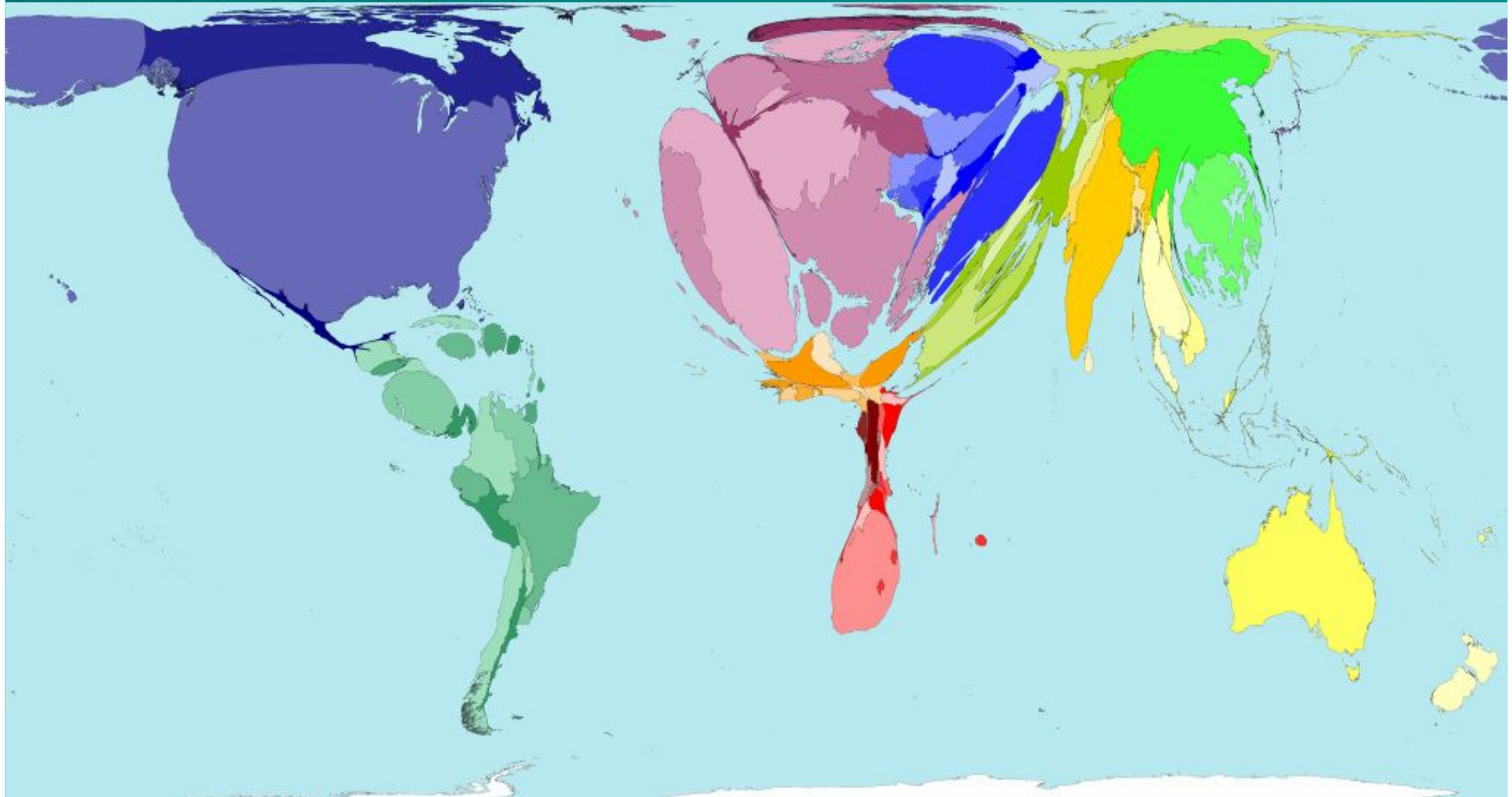
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Computer imports

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Threats

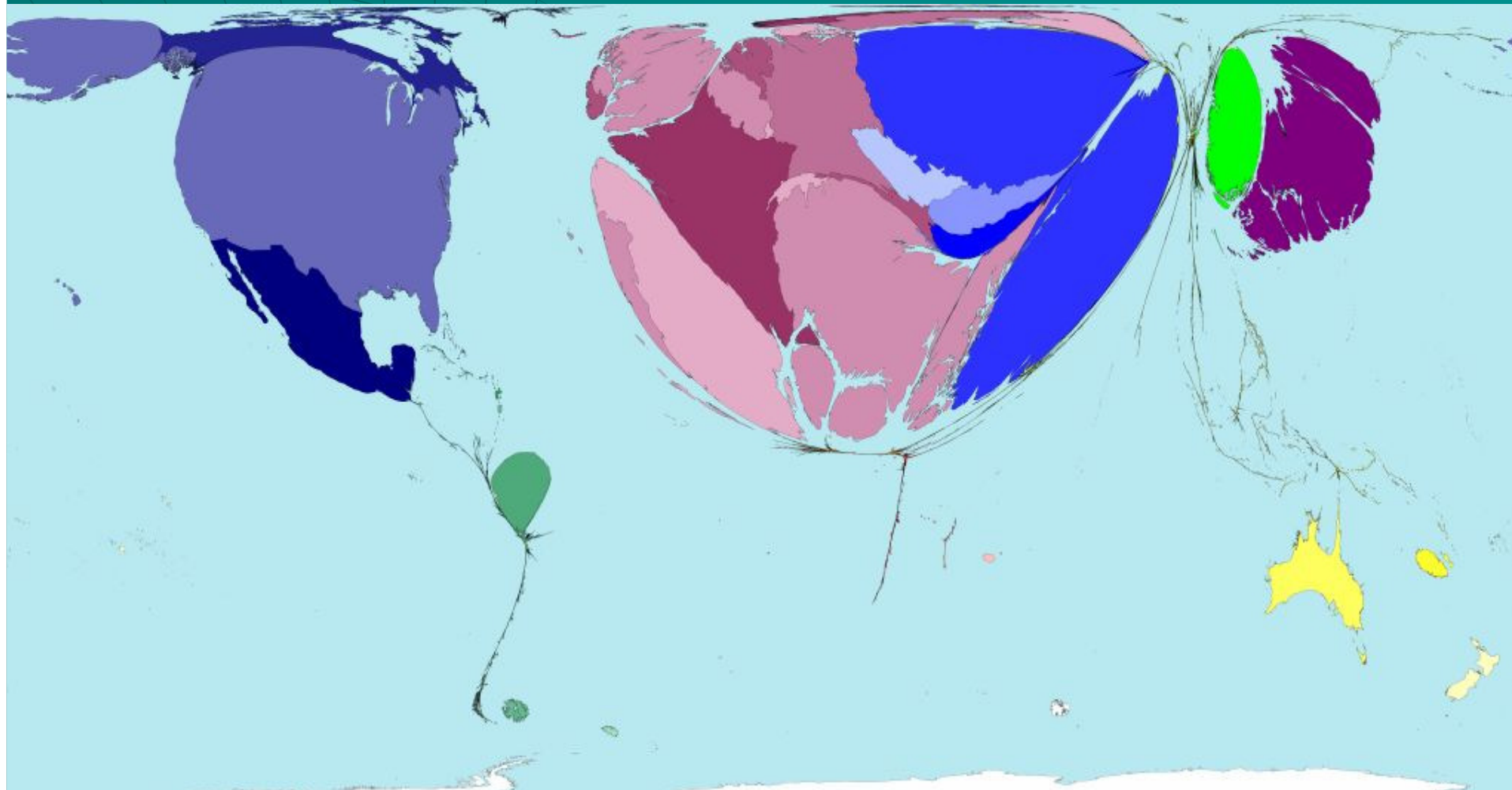
- ◆ Environmental Balance sheet
- ◆ Our safe community does not stand the global energy race
- ◆ Becoming "only" a holiday resort
- ◆ Too many initiatives...

Threats

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-
- ◆ Loosing young people's motivation and horizons

Female Youth Unemployed

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Vision

- ◆ 1-2 Globally attractive nodes within the "Northern Area"

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- ◆ Young people go out but they also return!

Vision

- ◆ 1-2 Globally attractive "NODES" supporting science and business development in the Northern Area
- ◆ Tech-knowledgy is cumulated within northern "open-source" design centres
- ◆ Young people go out but they also return!
- ◆ Some of the best people in the world come and visit, some even stay!



End of presentation
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Thank you for your attention