

GEON



CEON: The terrestrial Circum-Arctic Environmental Observatories Network:

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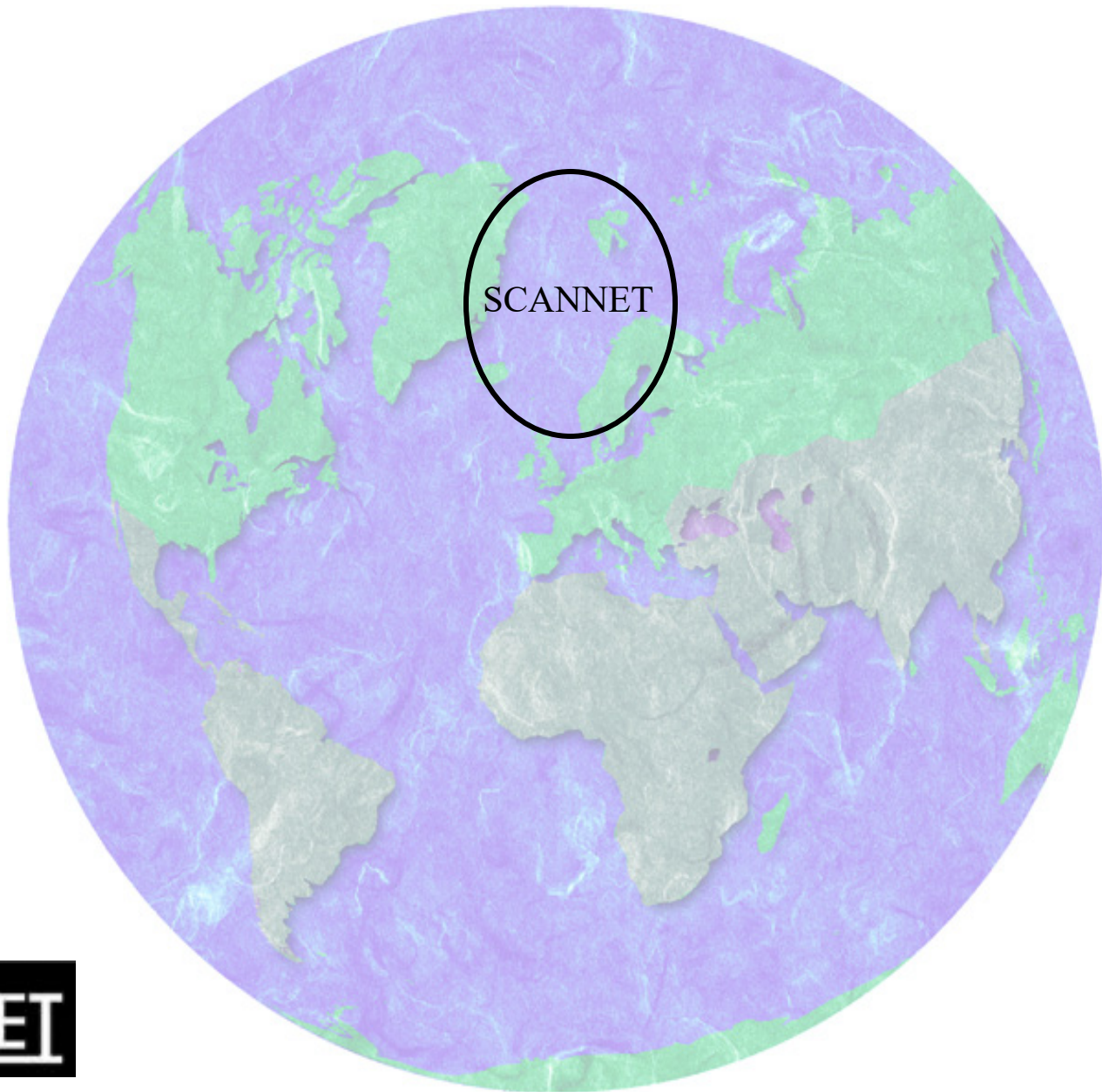
The CEON Concept

- The concept of a terrestrial CEON was introduced at a FARO meeting at ASSW 2000.
- Promote sustained high quality environmental observations in the Arctic.
- Promote dissemination of environmental observations to Arctic researchers.
- Encompass & build on the strengths of existing stations & environmental observatory networks within the Arctic.

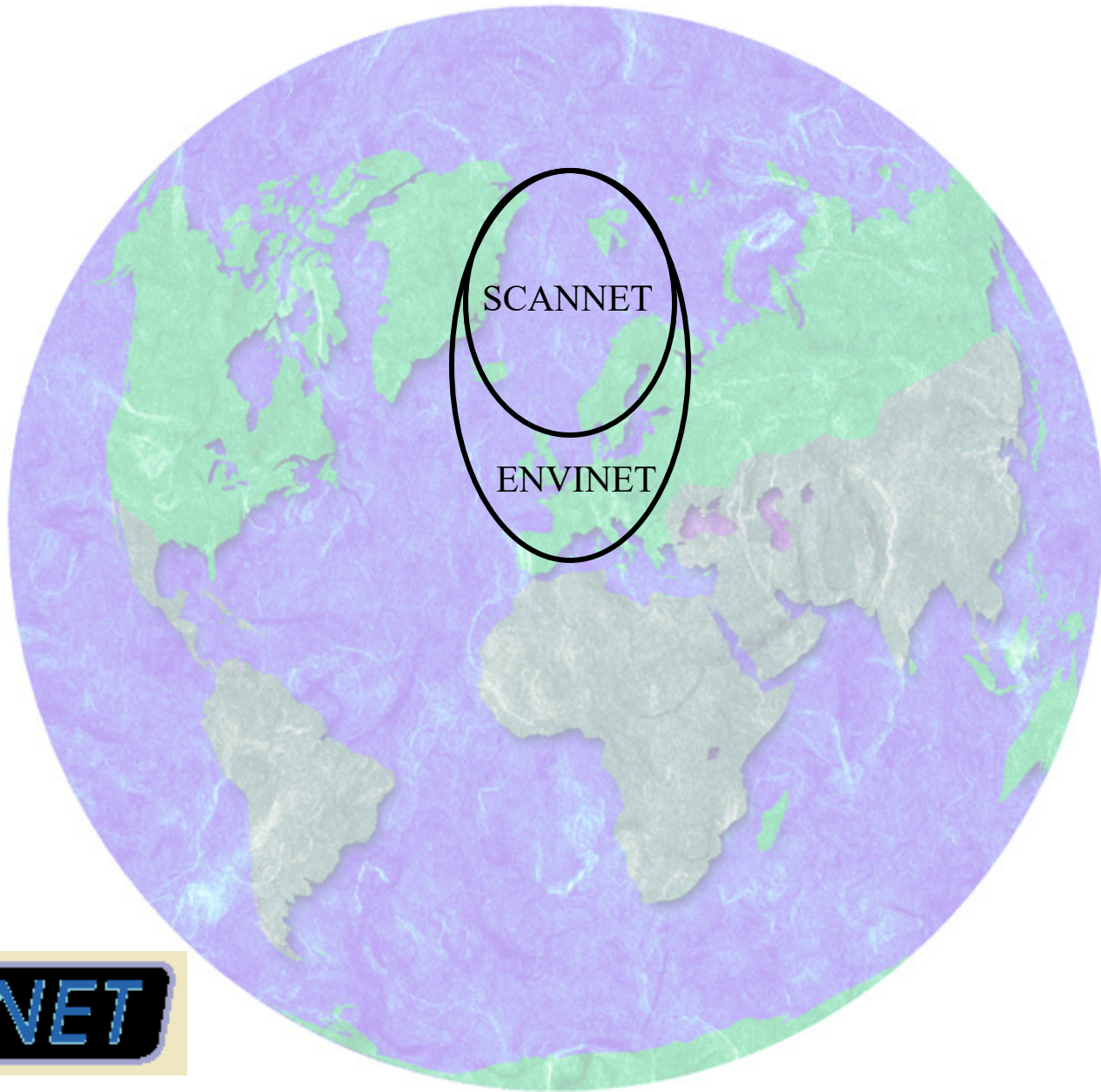


Rationale of CEON

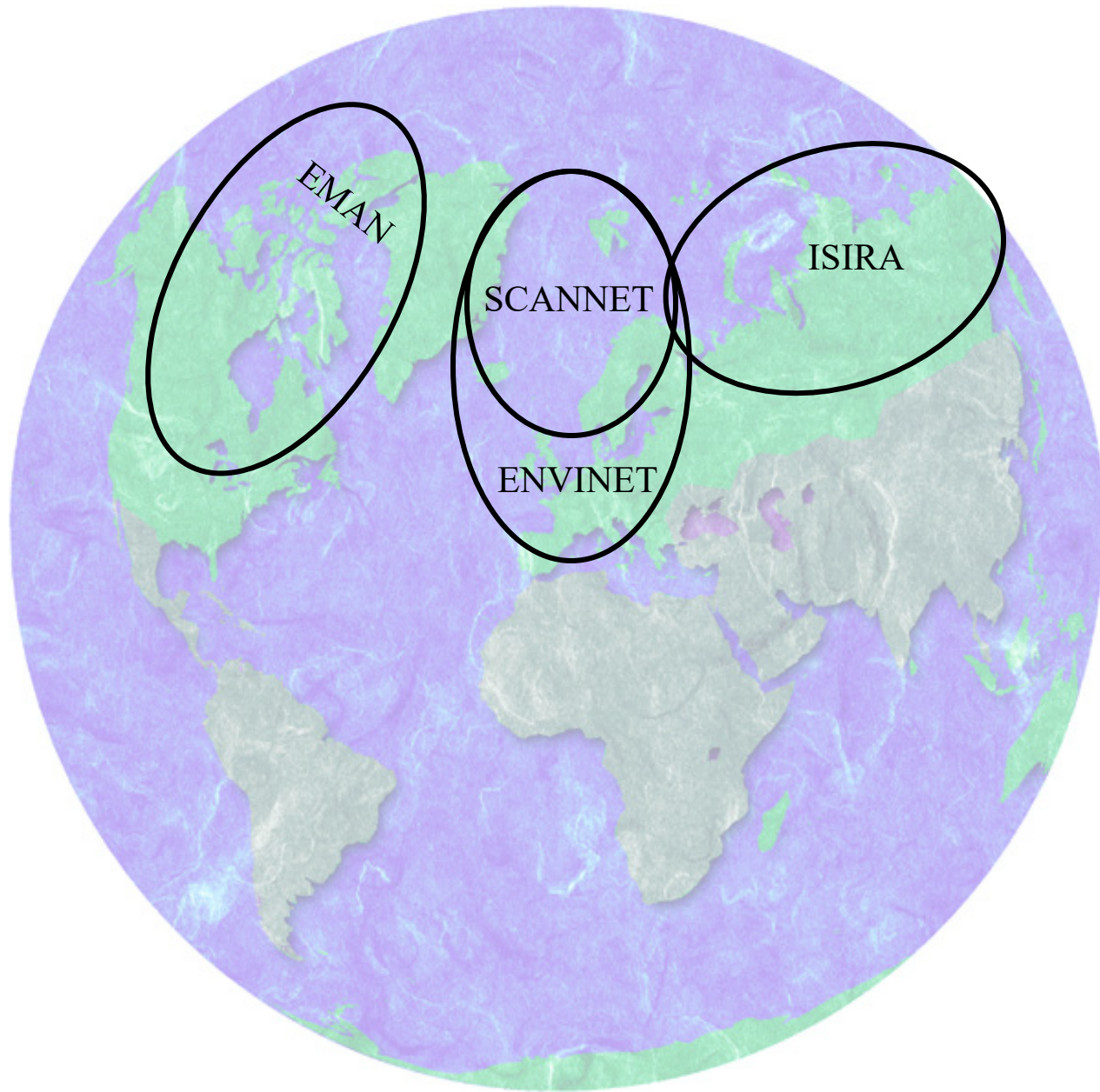
- **Dramatic changes are occurring** in terrestrial systems of the Arctic. Drivers of change include processes originating within & outside of the Arctic system.
- **Change assessment & predictive power is low & limited/threatened** by loss of sustained observational time series.
- To improve these – **need observation platforms** that provide adequate, diverse & sustained time series observations that cross international boundaries.
- **Starting points for CEON include enhancement of established infrastructure and facilitation of ongoing research & monitoring as well as improving transfer of knowledge at an international level.**



Scandinavian/North European Network of Terrestrial Field Bases

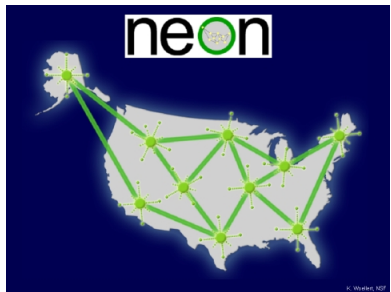
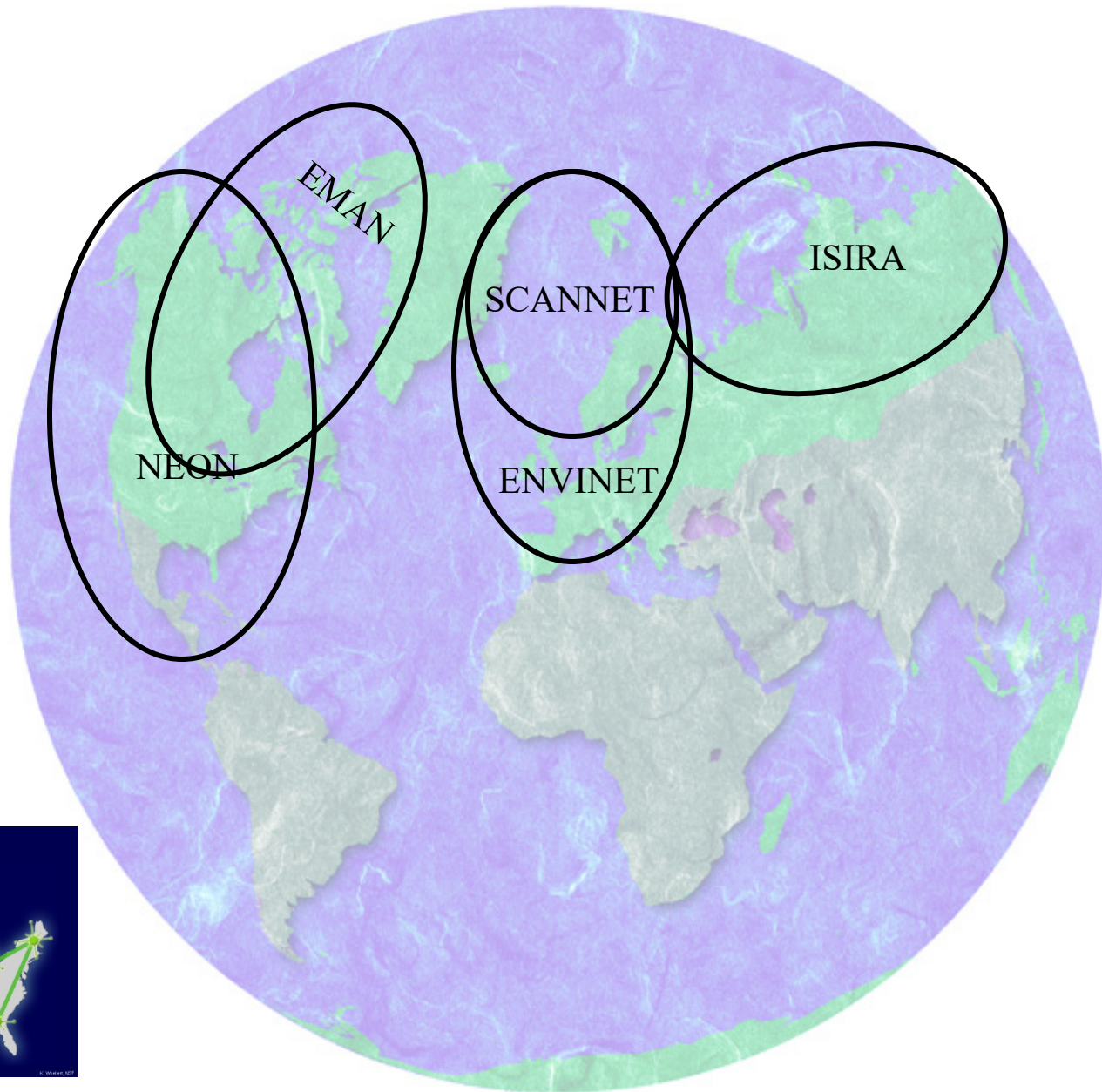


European Network for Arctic-Alpine Environmental Research

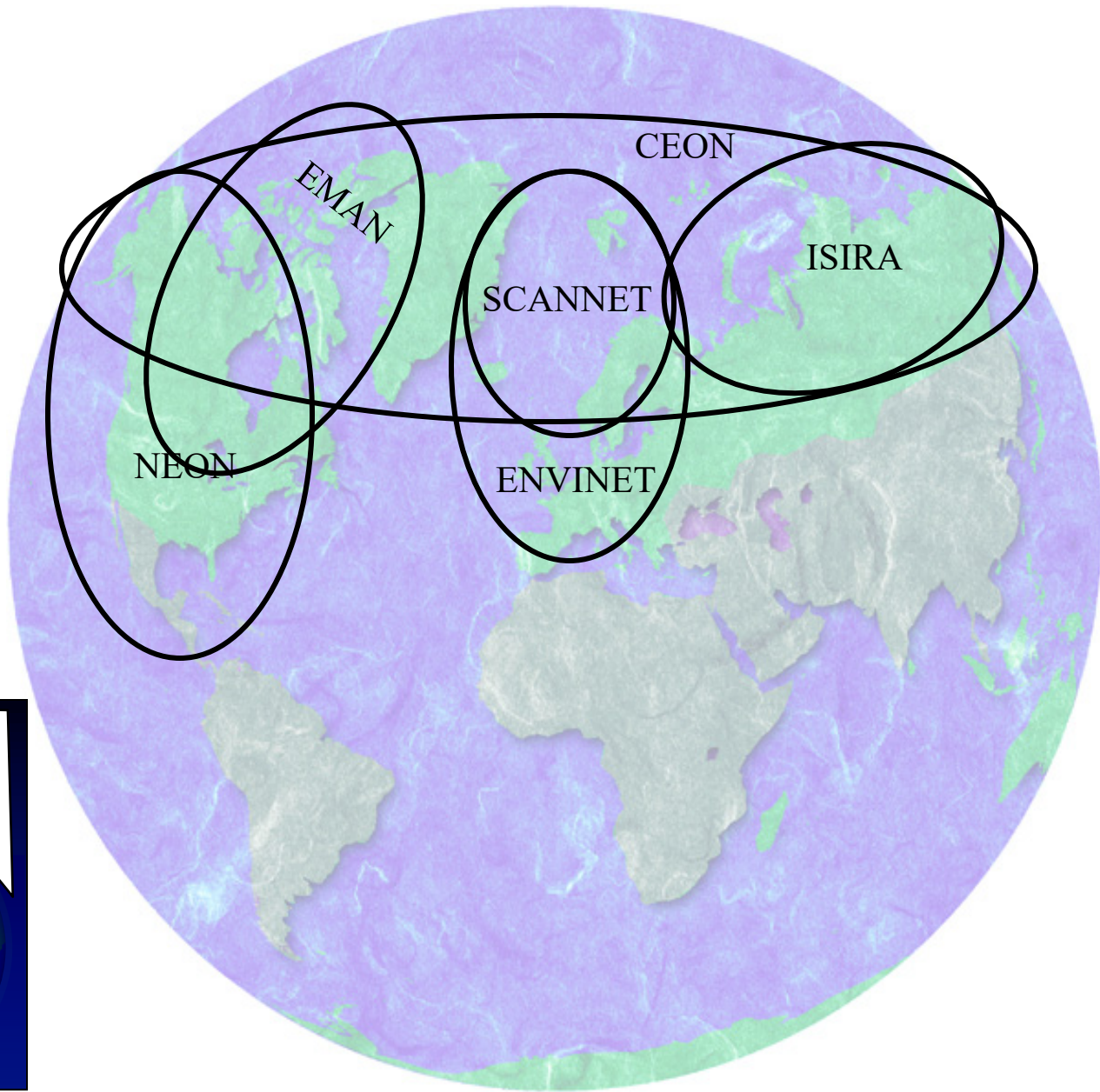


ISIRA

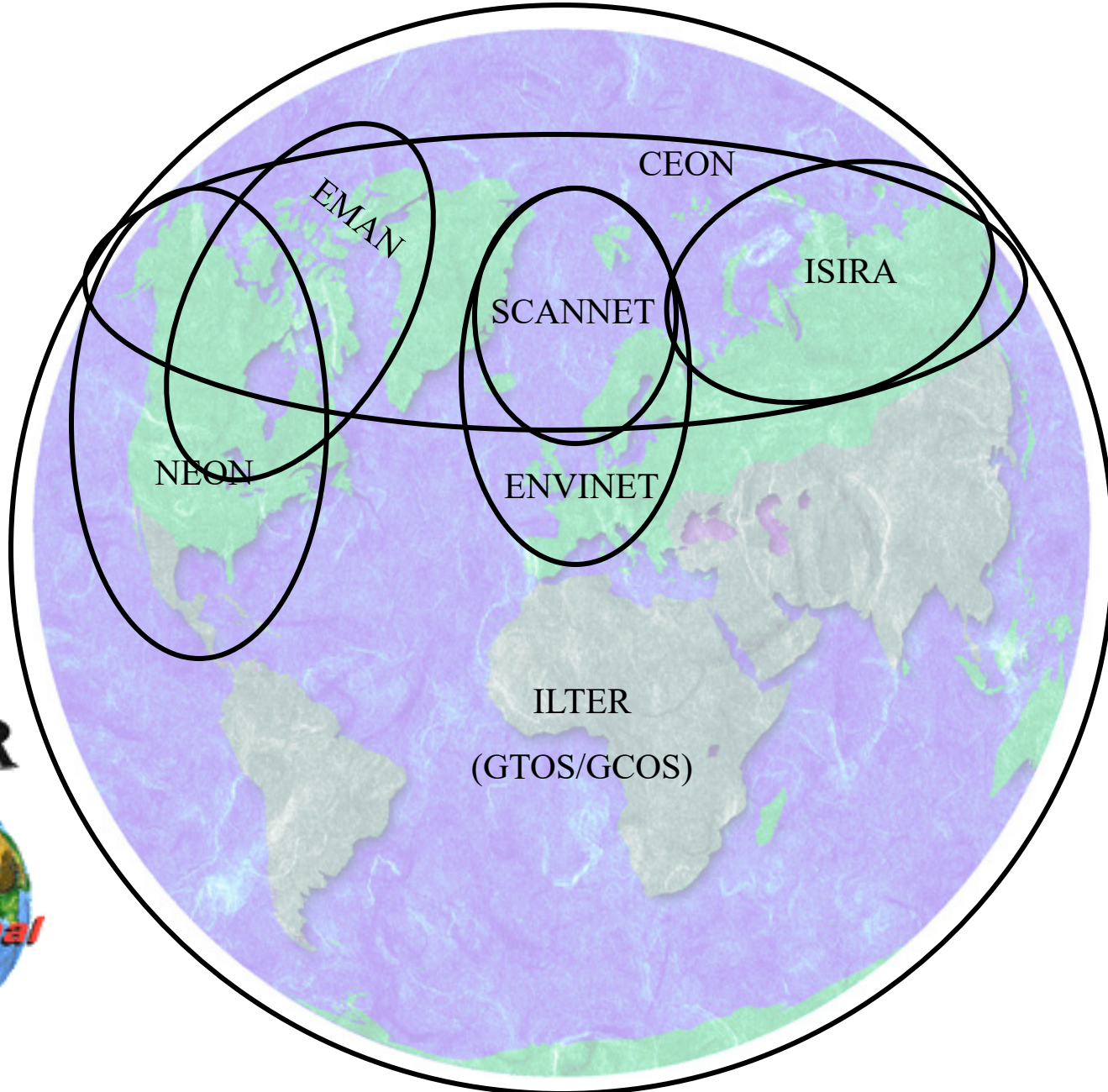
Interim Scientific Initiation in the Russian Arctic



National (US) Ecological Observatory Network



Circum-arctic Environmental Observatories Network



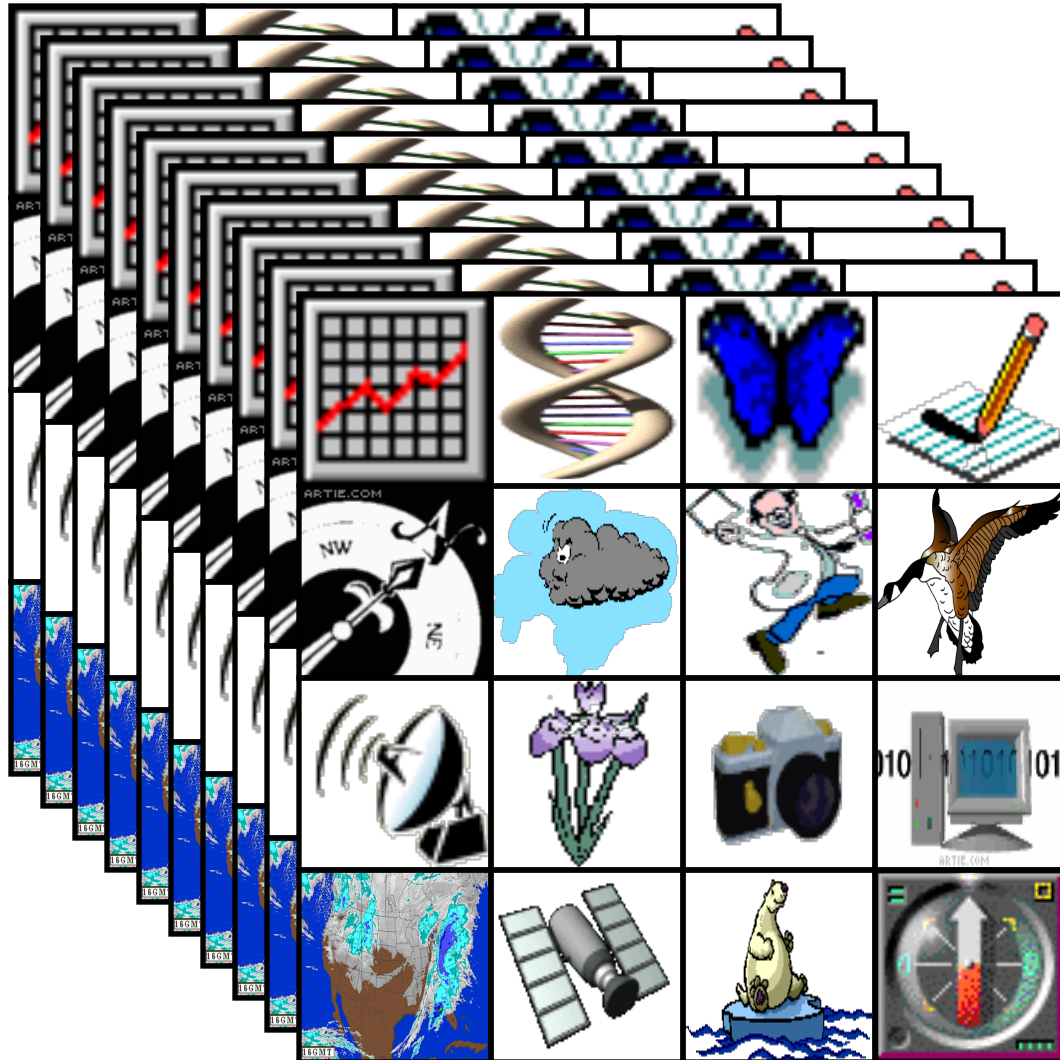
ILTER



International Long-Term Ecological Research Network



The 'Ideal' Network Design

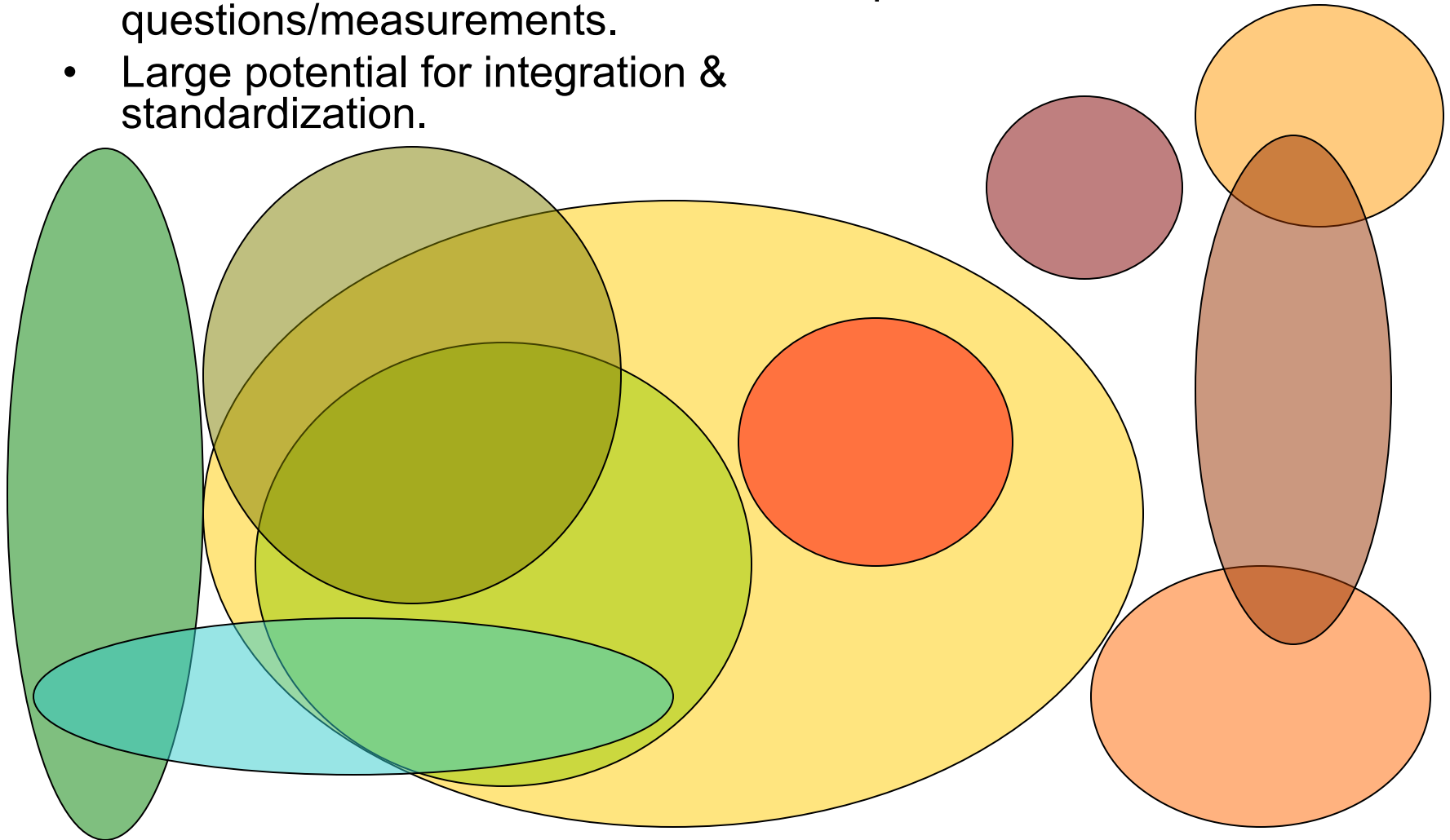


- Broad range of environmental measurements.
- Standardized methodology & instrumentation.
- Integrated data archive.
- Frequent synthesis efforts.
- Refinement of monitoring over time.
- BUT!!!!
- \$ #, ###, ###.##



The Realistic Network Design

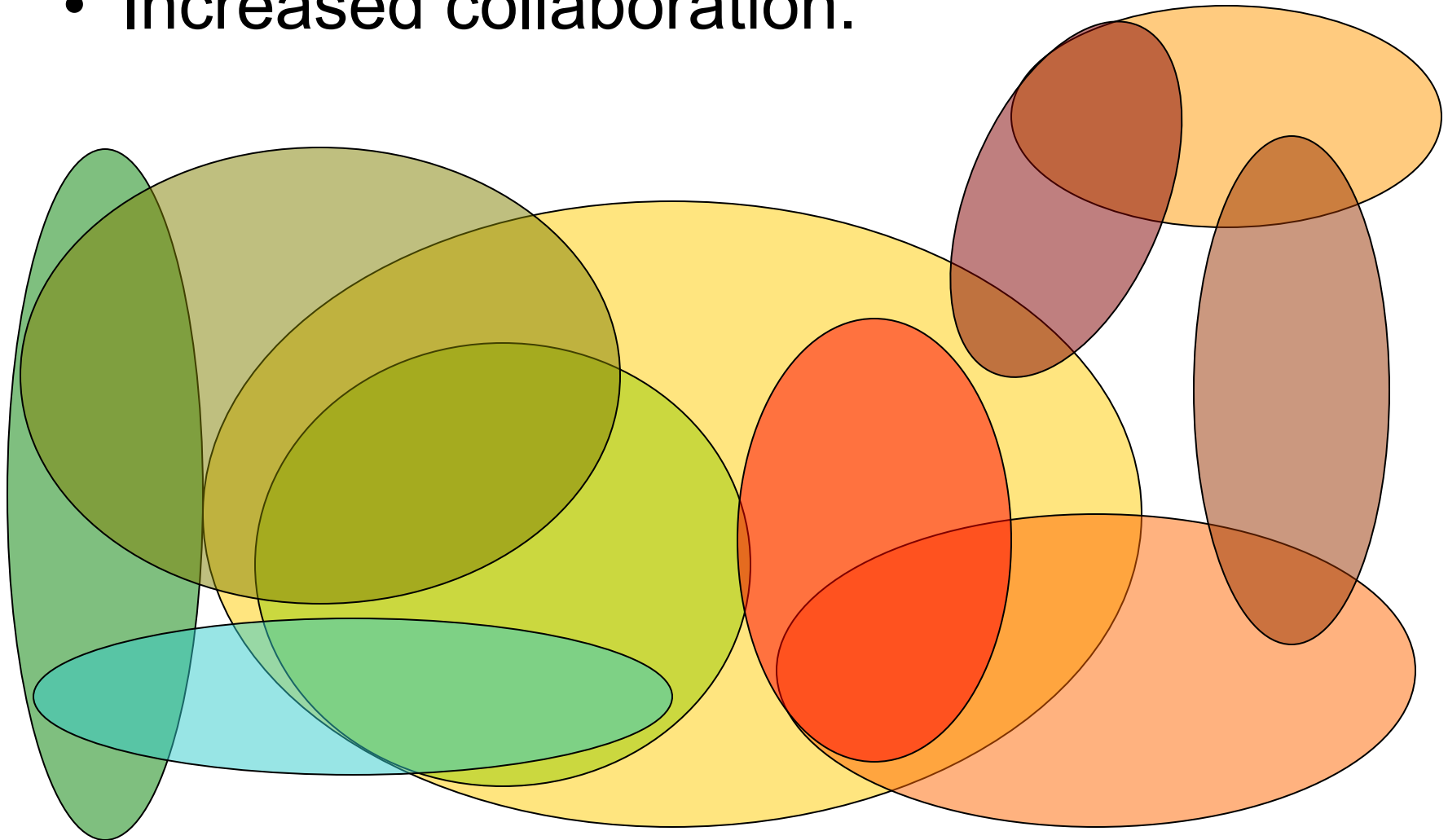
- Partners are autonomous, some overlap of questions/measurements.
- Large potential for integration & standardization.





With Time..... $n+1$

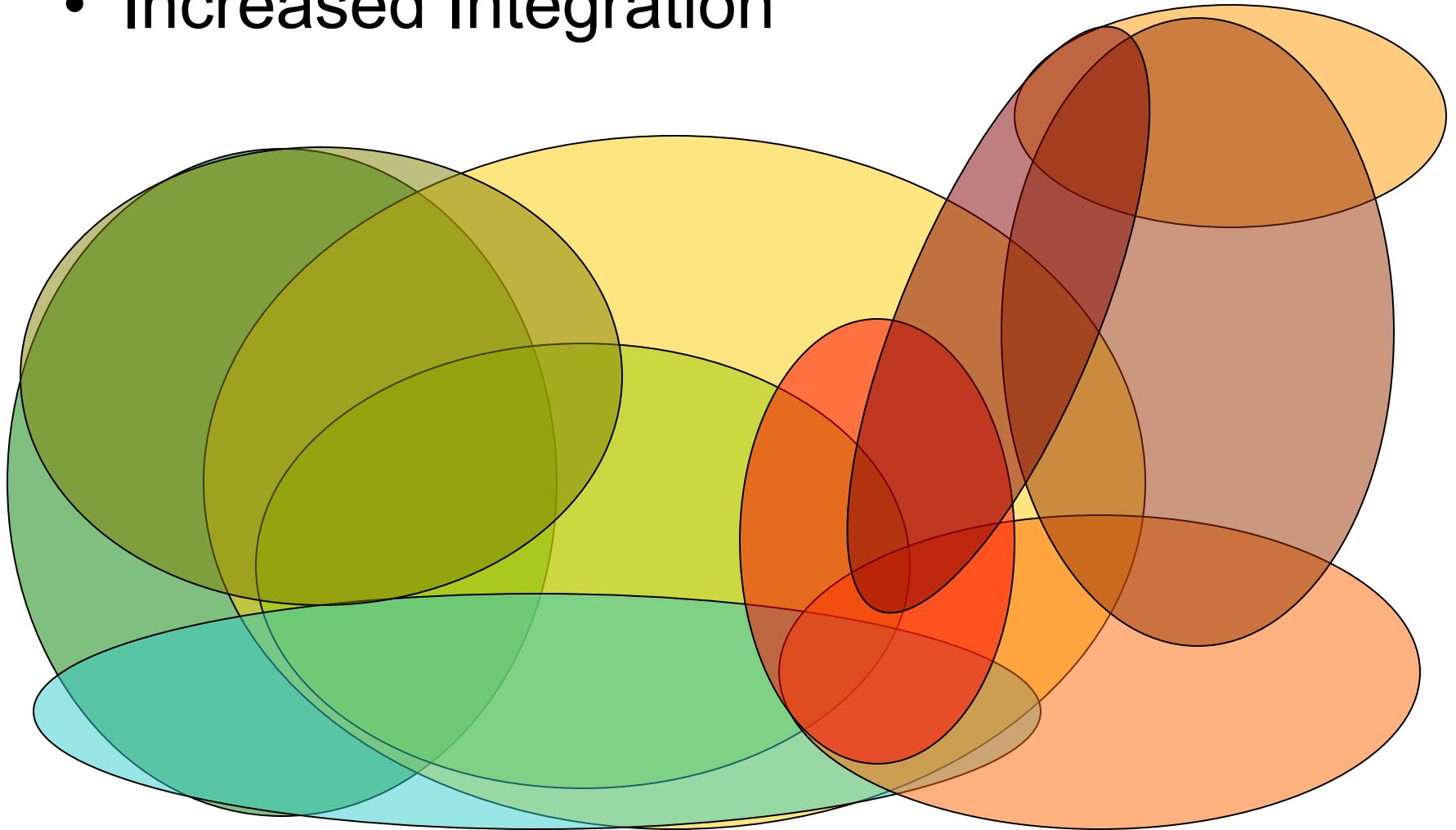
- Increased collaboration.





With Time..... $n+2$

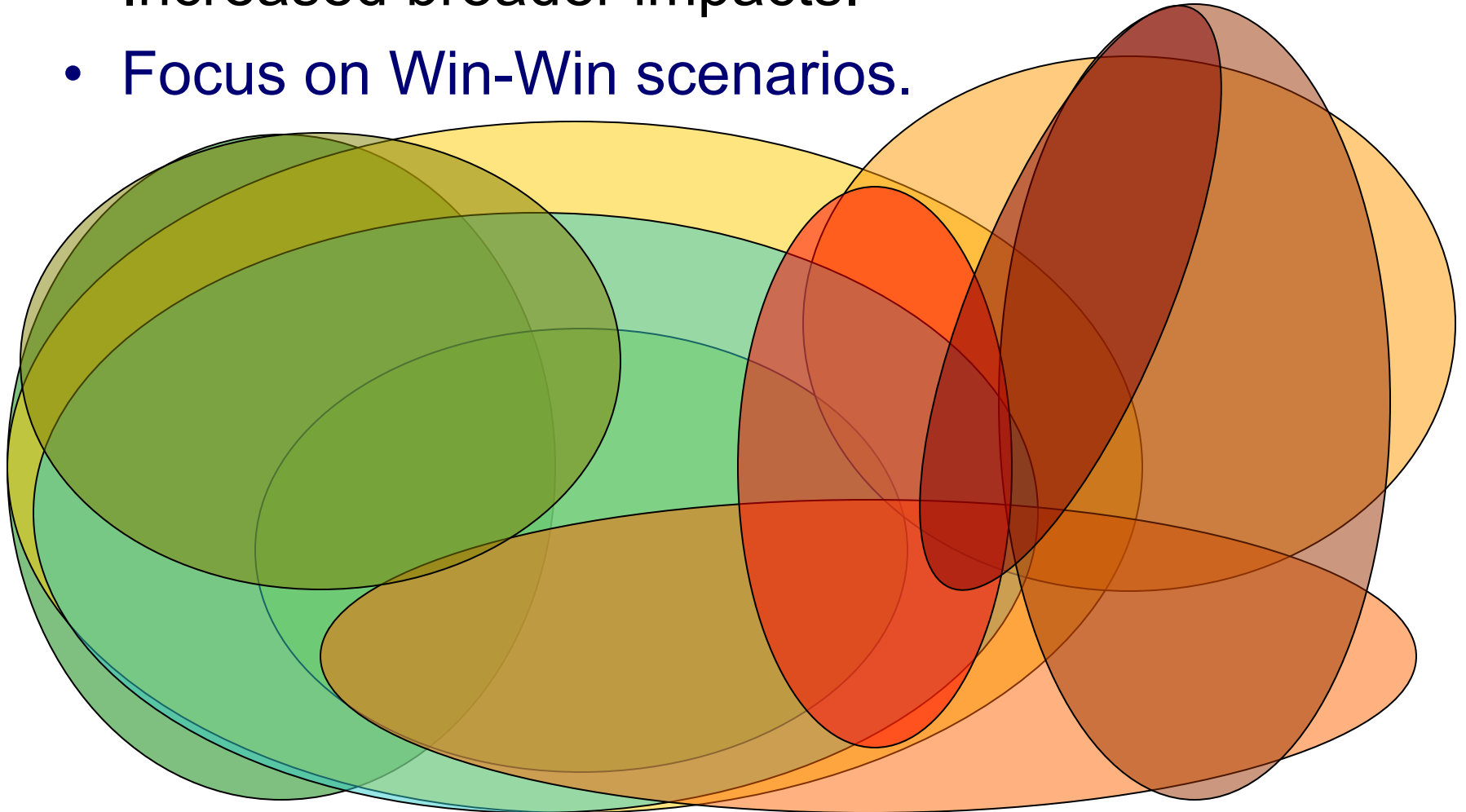
- Increased Integration





With Time..... $n+3$

- Increased broader impacts.
- Focus on Win-Win scenarios.





Thank you....

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- **www.cevl.msu.edu/acl/projects/ceon.html**
- **Soon to be.... www.ceoninfo.org**