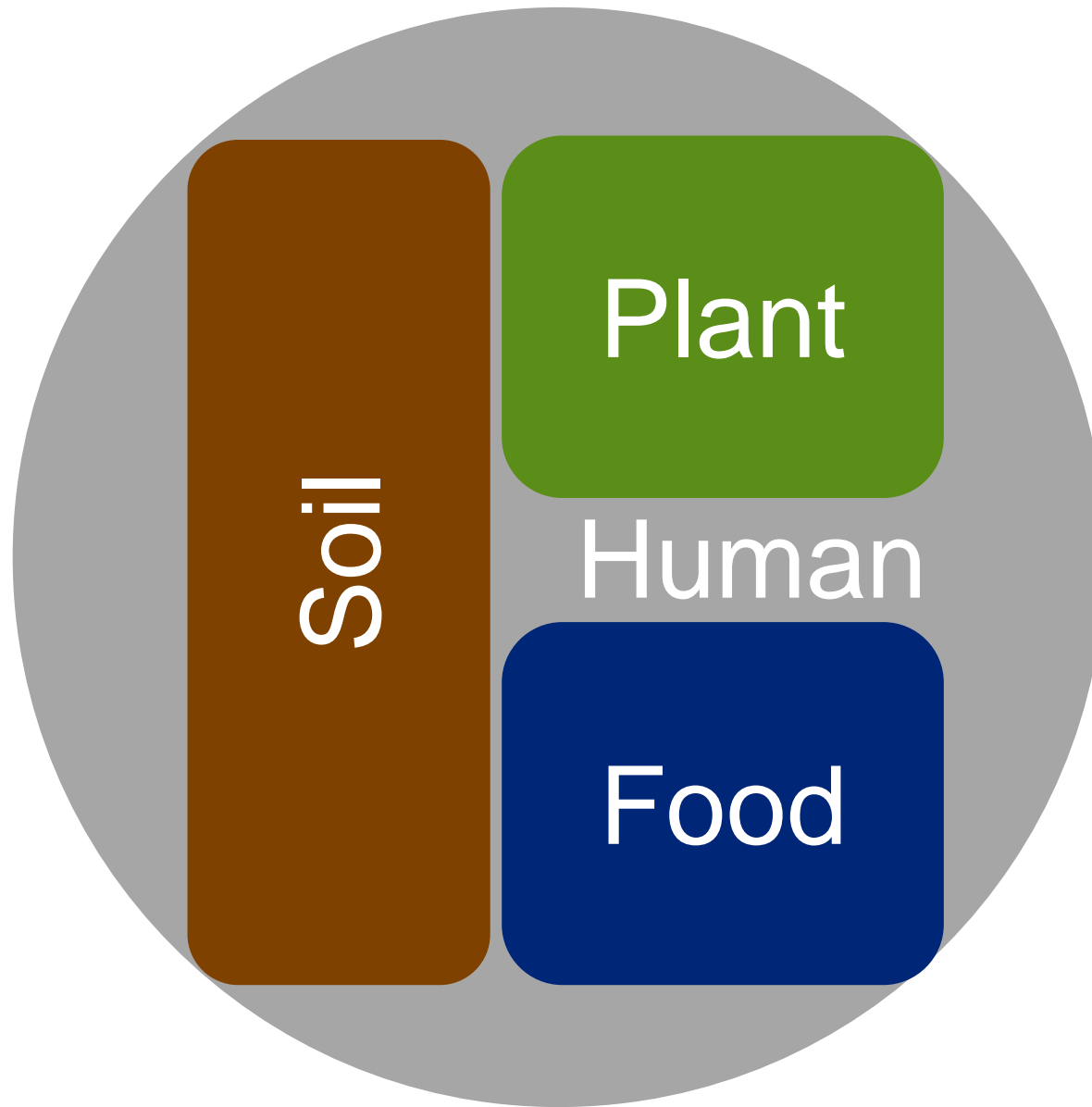


Innovation in Agriculture Soil & Food

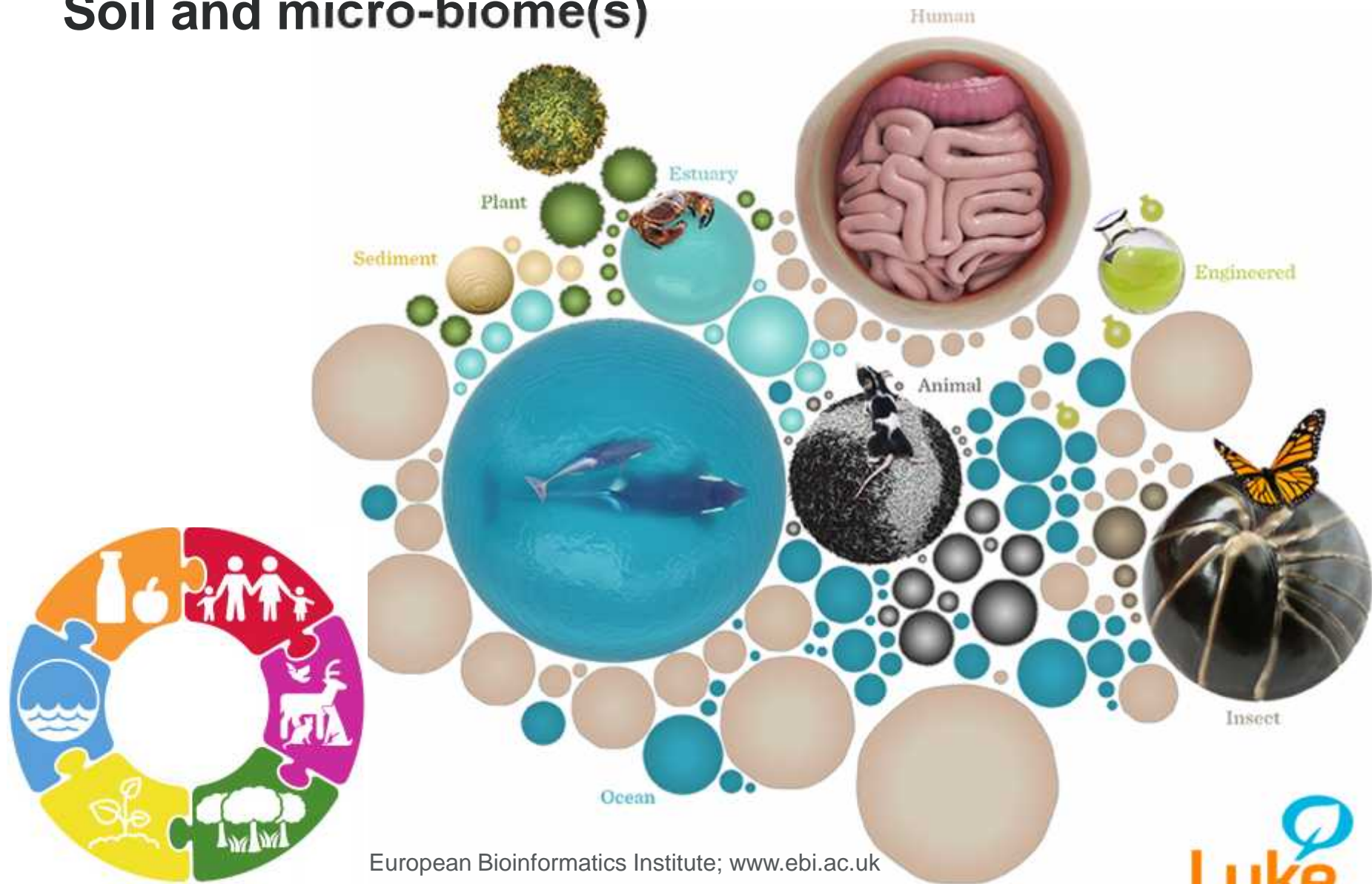
Dr. Nils Borchard

nils.borchard@luke.fi

18th February, Brussels

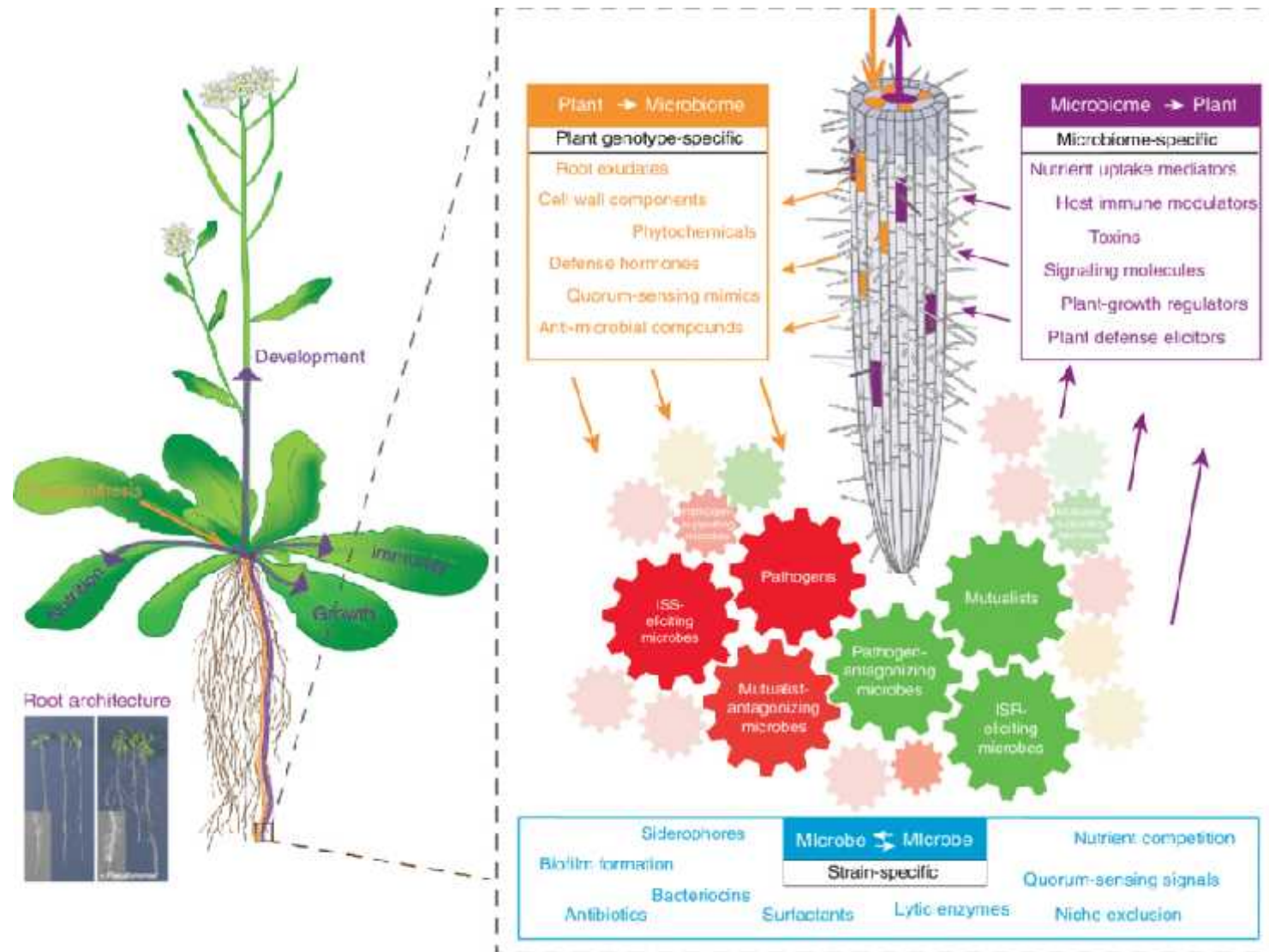


Soil and micro-biome(s)



European Bioinformatics Institute; www.ebi.ac.uk

Soil and plant micro-biome(s)

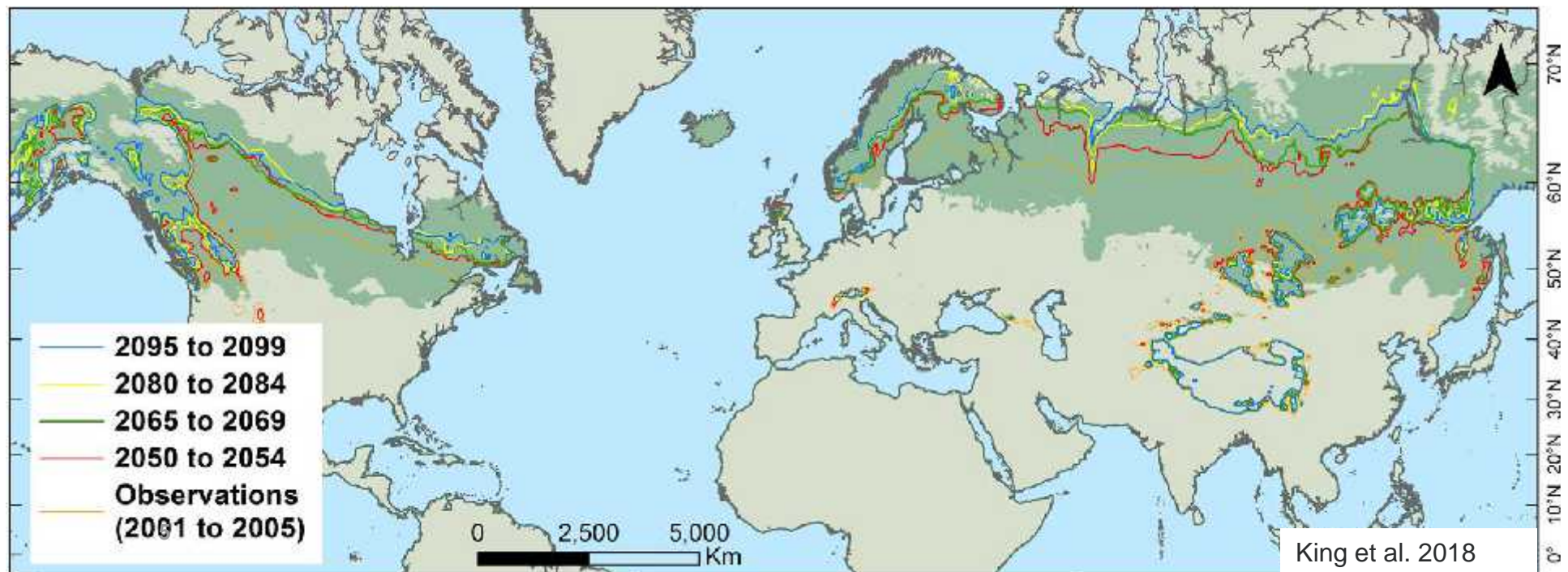
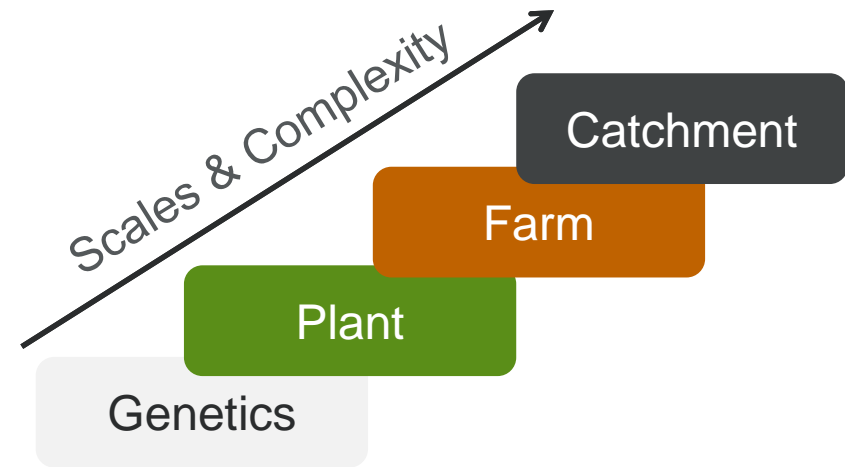
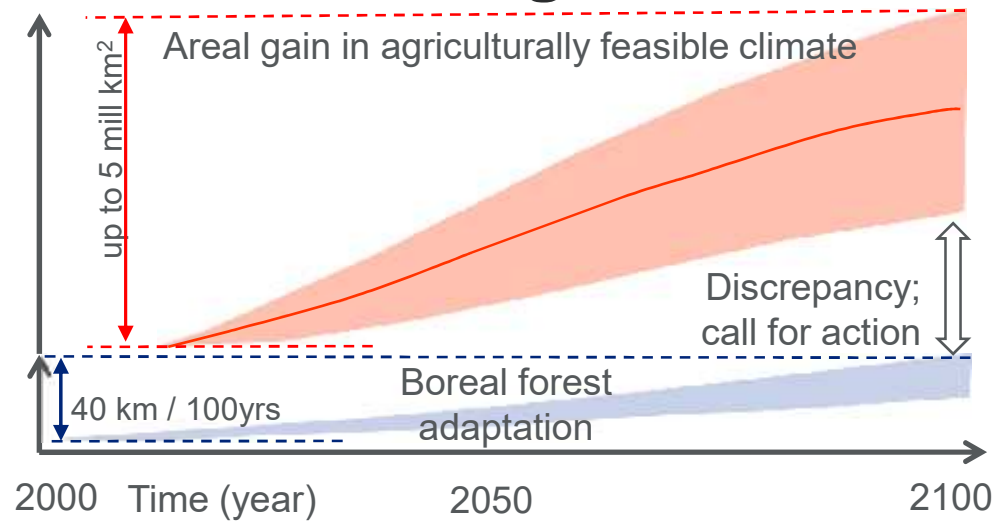


Pieterse et al .2016

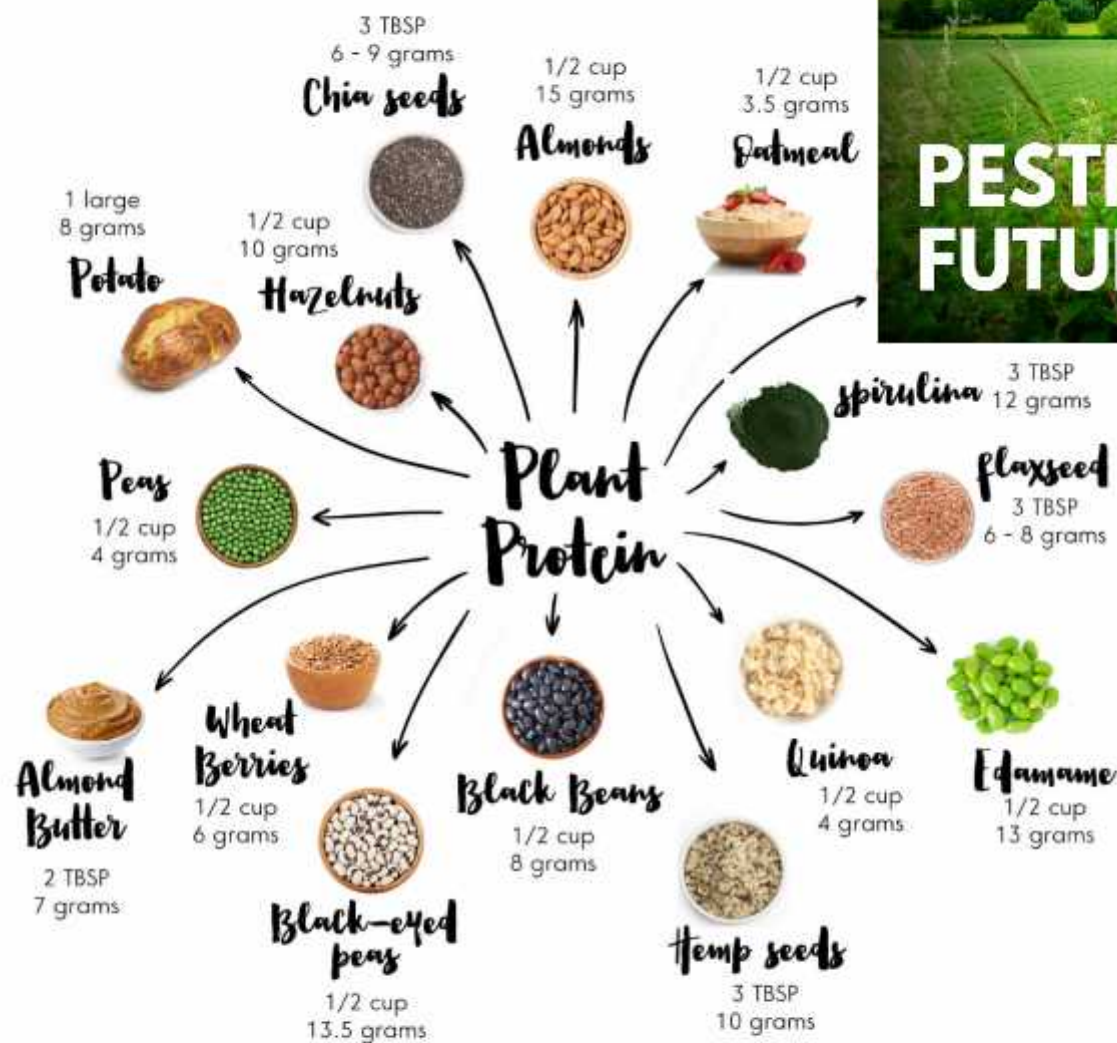
Trends in Plant Science

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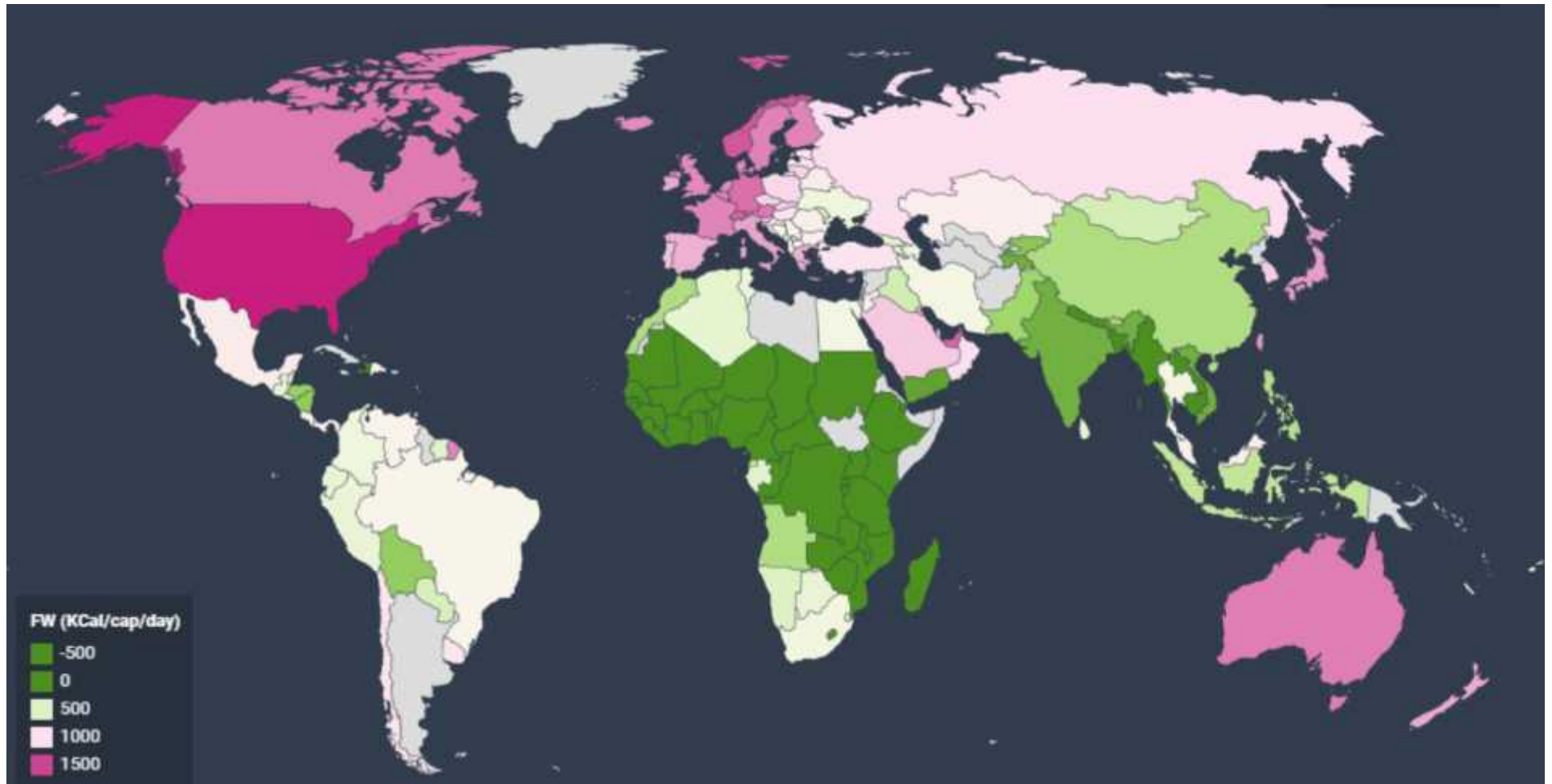
Climate change overstretches adaptation capacities



Food and food waste



Food and food waste



Van den Bos Verma et al .2020

Policies and policy gaps

	Adaption via education	Self- sufficiency	Fewer farmers, bigger farms	Climate shift affects yields	Land use conversion	Expansion
Canada						
China						
Estonia						
Finland						
Greenland						
Iceland						
Japan						
Mongolia						
Norway						
Russia						
Sweden						
USA						

Conclusion

- Microbiome
- Genetics and new breeding technologies
- Scalability and complexity
- Climate change, adaptation & mitigation
- Food preferences and waste

=> Cluster 6 for sustainable and resilient food systems

Thank you!

