



INNOVATION FOR A HEALTHIER PLANET







Thematic Focus

The Bioregional Planning for Resilient Rural Communities Network is an international network of interdisciplinary researchers and practitioners committed to:

- understanding the role that bioregional and systems strategies can play in supporting rural Northern communities
- activating those strategies in an intentional, place-based way to promote resilience in the face of climate change and other disruptive events.



Defining Bioregion

"The term refers both to geographical terrain and a terrain of consciousness—to a place and the ideas that have developed about how to live in that place."

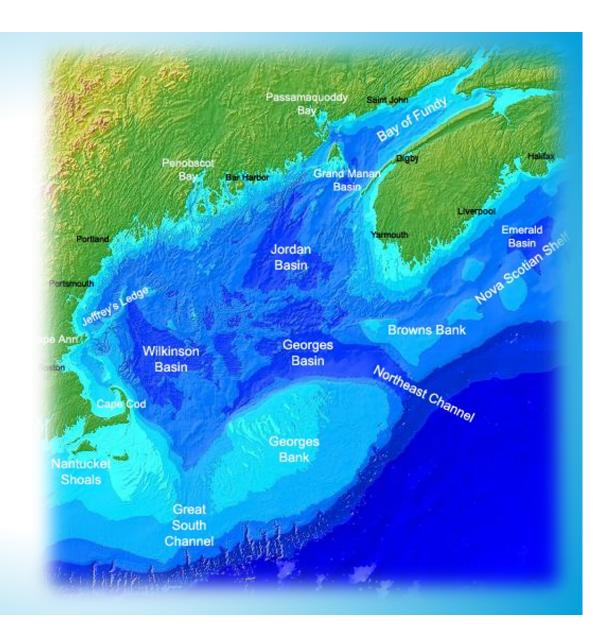
(Berg & Dagmann, 1977)

Peter B, Dasmann R. Reinhabiting California. *Ecologist*. 1977 Dec;7(10):399–401.

The Power of Bioregioning

A bioregion's boundaries are not fixed by human or political factors, but rather take into account flora, fauna, climate, rivers, lakes, mountains and valleys. It is a place-based organizing structure, most suited to understanding the potential mechanisms to supporting resilient communities. (Thayer, 2003)

Thayer RL. *Life Place: Bioregionalism Thought and Practice*. Berkeley and Los Angeles: University of California Press; 2003. p. 6



The Network's Mission

The UArctic Bioregional Planning for a Resilient Rural Communities thematic network serves as an interdisciplinary platform by which institutions and local communities can leverage bioregional planning strategies and tool kits to support resilient rural communities in the North.



Charting our Course - STRATEGIC PRIORITIES

- The network will curate existing strategies and tool kits and support their optimization and customization for specific bioregions;
- The network will place particular focus on the engagement of the "people of the place"; on intergenerational engagement; and on engagement of community members on the margins.
- The network will provide programming, such as webinars and symposia, to disseminate project based work and its impacts to the UArctic community.



Honoring and Engaging The People of the Place

"The successful solutions we can develop to our most pressing environmental, social, and economic issues will be in collaboration with people and communities—especially those with the lived experience so critical to sustainable success." – Terzah Poe, Inuit Educator & UNE North Advisor

"Working at the speed of trust" – Glenn Page, CEO SustainaMetrix



Activating the U.N. SDGs



SDG 17 – Partnerships for the Goals

The network will endeavor to bring together subject experts who are also practiced in knowledge sharing and creation across disciplines. This combination of expertise, humility and communication skills is vital to the success of bioregional planning teams and processes.

GOALS and PLANNED ACTIVITIES

- Working Meetings
- Dissemination

Scientific Outputs

Policy Briefs

Public Engagement

Website & Social

Media

- Mobility and Student Engagement
- Teaching and Training





An Invitation

UArctic Members and Non-Members are welcome to join the Network!

 Email Network Chair Holly Parker at hparker3@une.edu

First Network Working Meeting in October!

- Join us at the Arctic Circle Assembly at Harpa or via Zoom
- Agenda will include project sharing and discussion of student and Indigenous community engagement.
- Date and Time TBD stayed tuned!

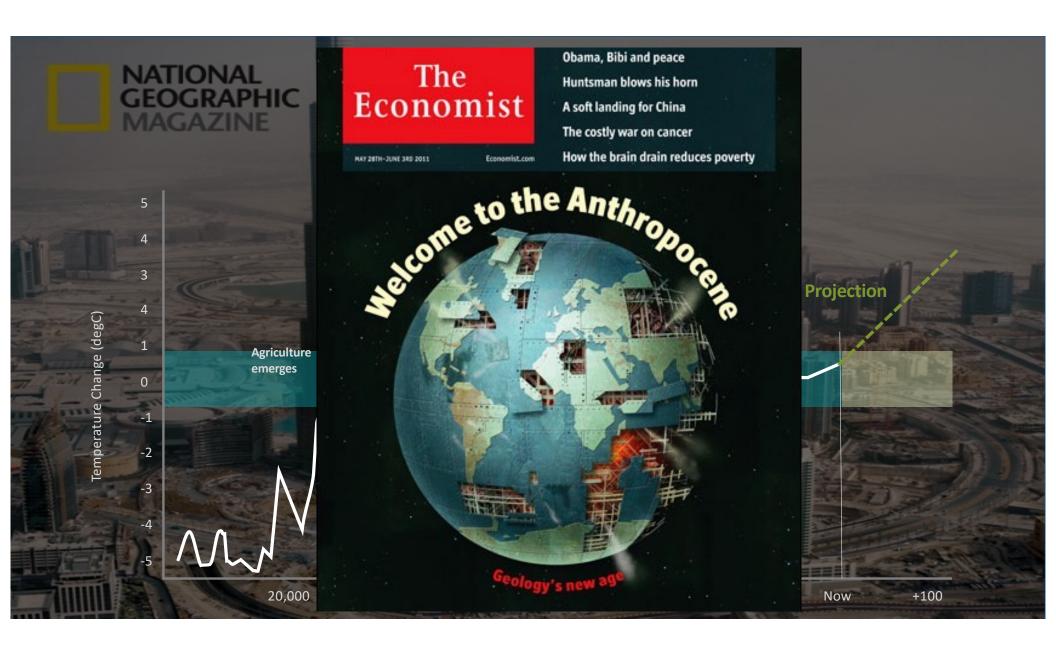
Submit Bioregioning Resources and Events for listing on the network website!



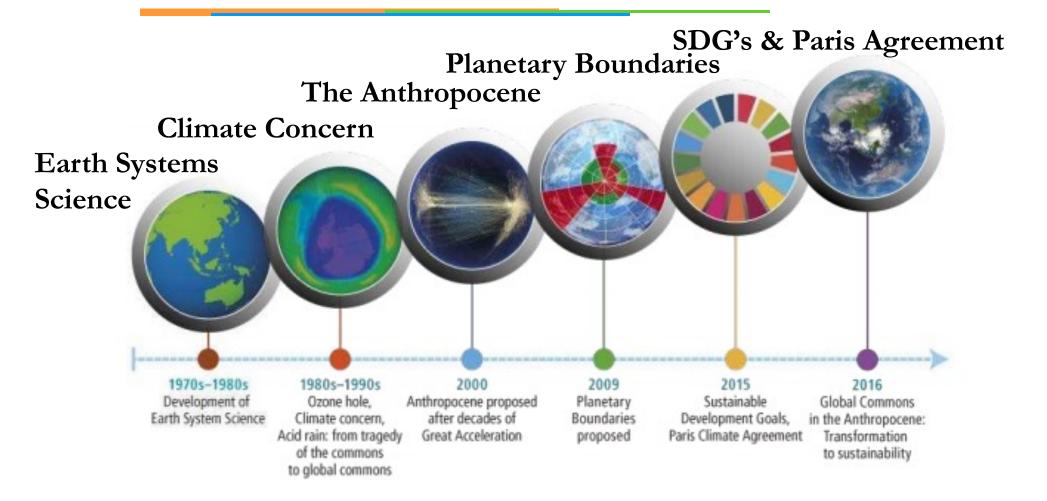
UArctic Thematic Network: The Power Of Bioregioning

SEPTEMBER 14, 2021

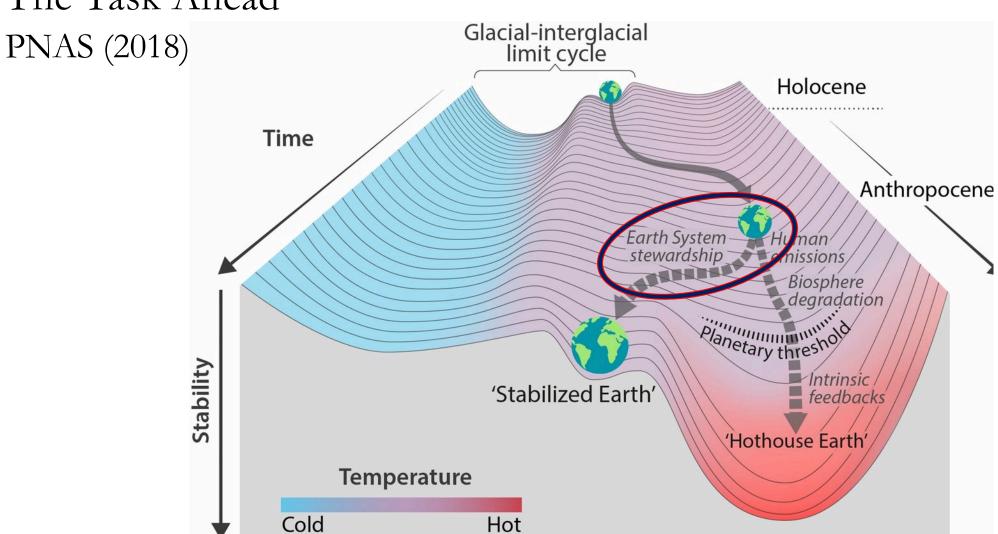
BIOREGIONAL PLANNING FOR RESILIENT RURAL COMMUNITIES



Response to Global Systems Change



The Task Ahead

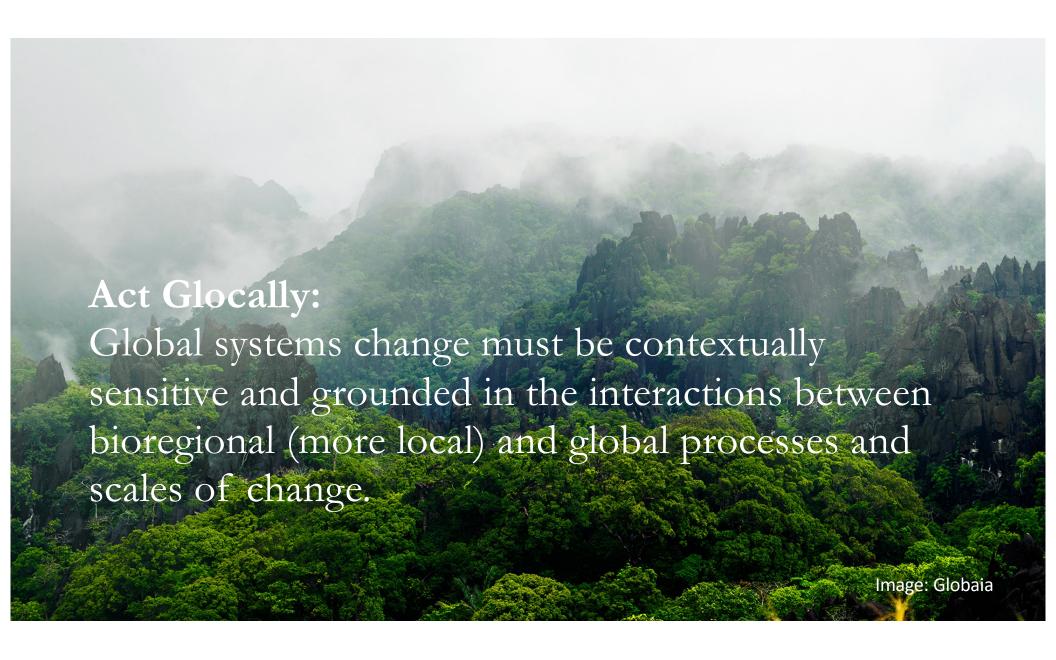




Global Thinking:

Apply whole Earth, big-picture thinking to all aspects of bioregional work.

Image: Globaia



Next Wider Scale Northern Arc of the Atlantic

Engage Using a Global Perspective

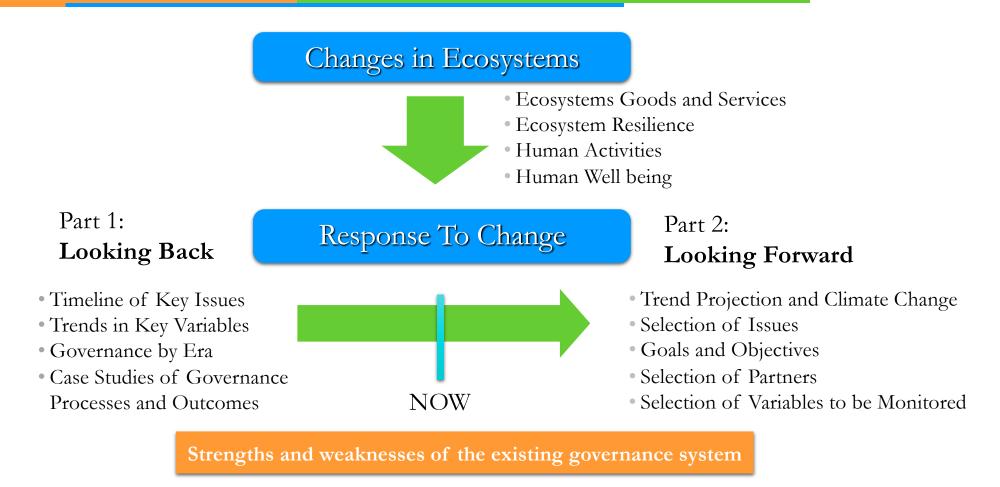


- Arctic as air conditioner for the northern hemisphere
- The system is rapidly changing - at a tipping point
- World's newest ocean with huge opportunities
- Huge challenges affecting global security, economics, human & ecosystem health, biodiversity, cultures and livelihoods of millions of people
- Rare window of opportunity to get it right for global governance

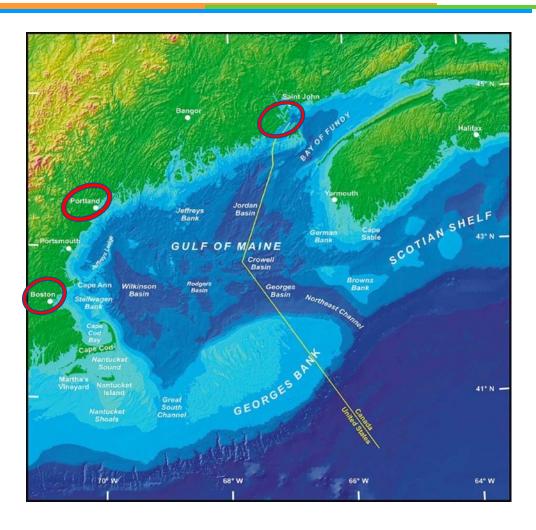




Framework for Establishing a Baseline



Three Bioregions: Boston, Portland, Cobscook Bay



- Three locations form the basis of our actions: urban area of Boston, urban/suburban area of Portland/ rural area of greater Cobscook Bay
- A Transformations Transect across these areas will allow for a systematic inquiry into how to better see the transformations systems
- The headquarters for the work is in Portland Maine at the New England Ocean Cluster on Commercial Street.
- All three locations have physical spaces of learning
- This is a novel initiative, there are no others doing this level of integrative systems work.

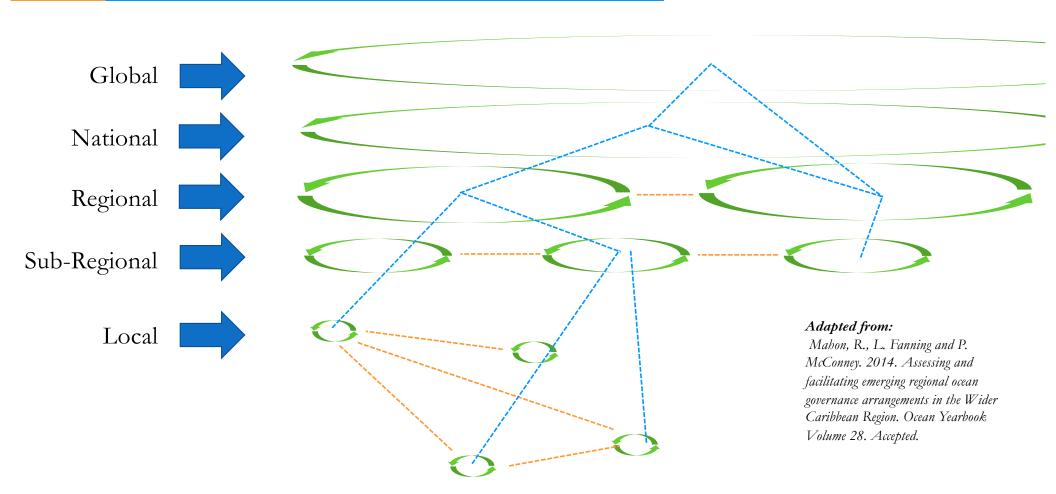
How To:

- Define the Area of Focus and Next Wider Scales
- High Quality Engagement of Participants
- ID Trends in Key Variables over Time
- Build a Timeline With Your Stakeholders
- Co-create a set of Governance Case Studies
- Set of Reference Points to Measure Progress

Seeing the "Green Shoots" of Change

- Food systems (agroecosystems, ecological aquaculture)
- Education systems (transforming rural education/)
- Ecosystem Restoration (riverine/salmon, coastal)
- Ecosystem-Based Fisheries Management
- Food Sovereignty for Indigenous Communities
- Communications Systems (Broadband for rural areas)
- Finance (systems-level investing)
- Tourism (Ecotourism, conservation/culture-based)
- Integrated public health/wellness for all ages

Seeing Change Across Scales



Seeing Interconnections Across Scales

Seeing the issues and human response (Learning Journeys)

Visualizations, models, stories, case studies

Connecting transformations systems (Net-weaving)

Systems mapping, SNA, GIS, and acting

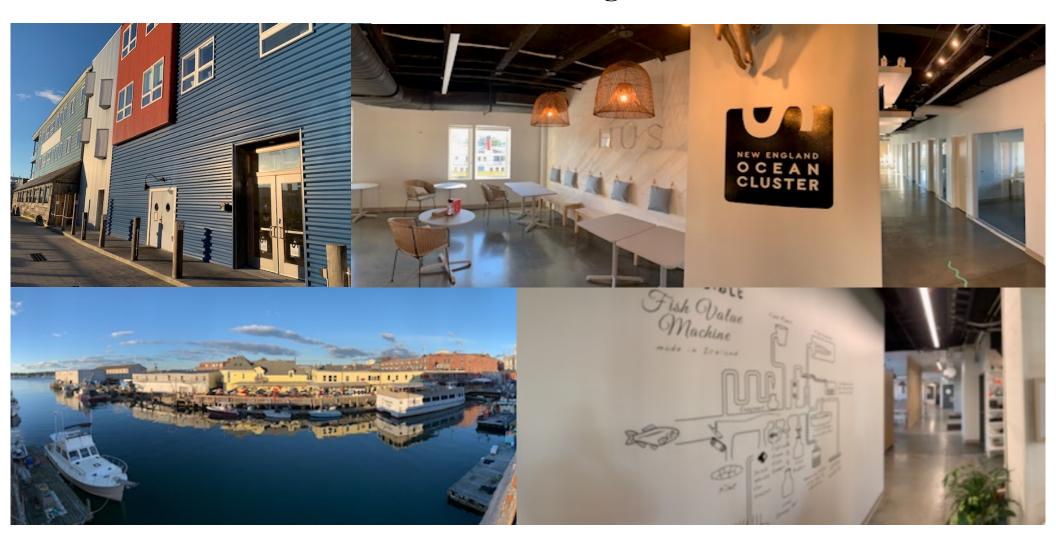
Radical learning about transformations systems (Diagnosis)

• What's being learned, where are the synergies, what's missing, what forces are holding back change?

Accelerating transformations systems (Synergy)

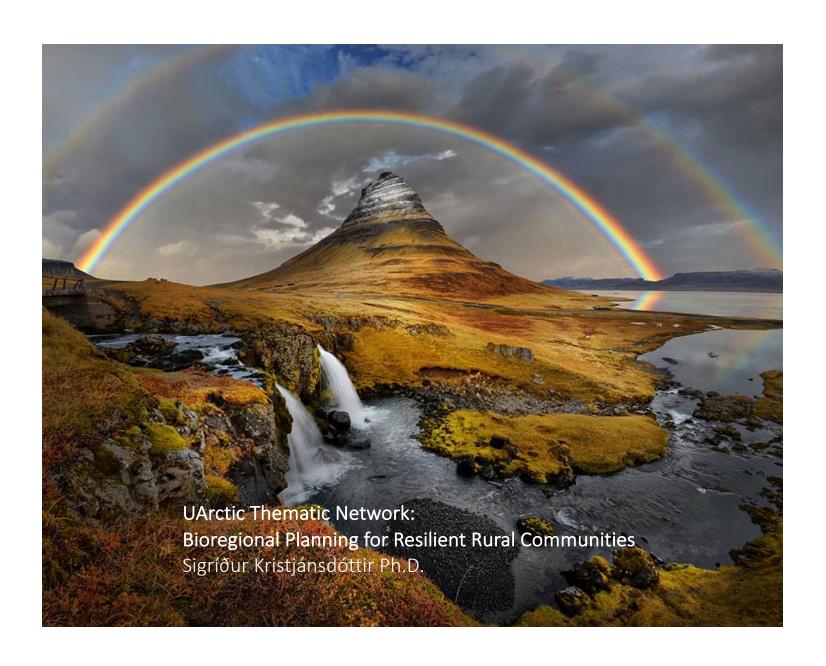
How to scale within a transformations systems?

HQ: Portland Maine @ New England Ocean Cluster

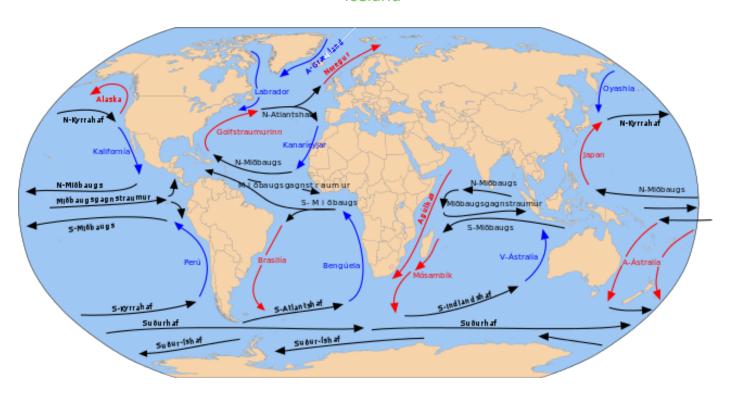


QUESTIONS?

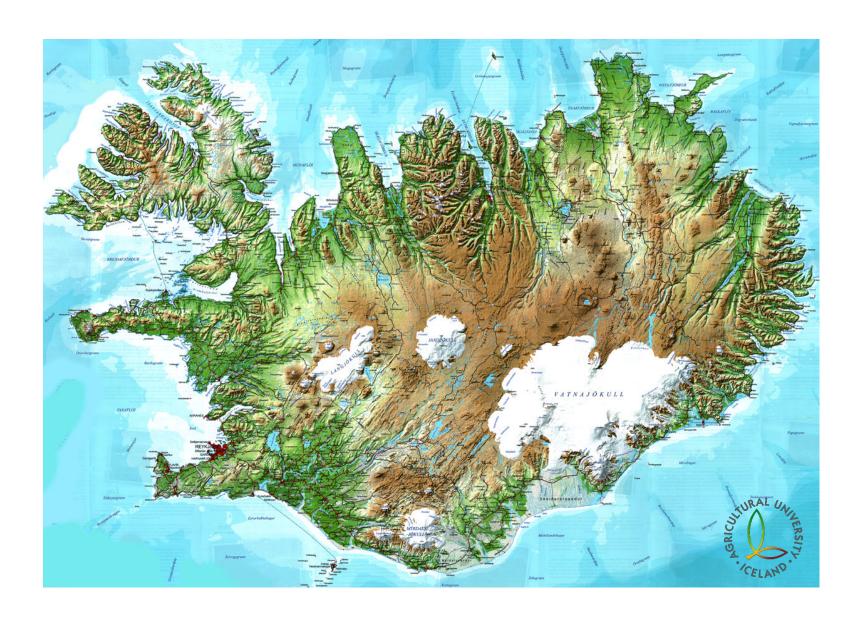
THANK YOU!



Iceland



Ocean Currents







Agricultural University of Iceland







Agricultural Science

- Economic, biological and technical conditions for livestock and land utilization
- Various aspects of agricultural sciences, fx. Feeding, breeding, housing and animal well-being

• Equine Science

- Focus on knowledge base in all areas of equine science with special emphasis on the Icelandic horse
- Two year at Hvanneyri and one year at Hólar University for courses in riding and specialized courses







• Nature and Environmental Science

- Focus on both Icelandic nature and resources as well as global perspective
- Emphasis is on broad, interdisciplinary and ecological approach
- Students are familiar with the basic functions and components of ecosystems and ecological processes





<u>Academic Programmes –undergraduate studies</u>



- Forest Science, Restoration Ecology and Management
 - Natural resource management with emphasis on establishment and management of forests and restoration and management of degraded land
 - forest planning (including landscape analysis), project management, technology, inventory, and innovation





<u>Academic Programmes –undergraduate studies</u>



Landscape architecture

- Interaction of planning, Icelandic nature and well being of inhabitants
- soil science, botany, ecology, environmental impact assessment
- cartography, planning science and computerized design as well as courses in human geography, economics, landscape analysis drawing and planning.
- The environment shapes the man!







Graduate Studies

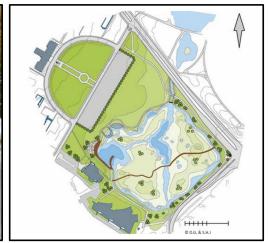


• Planning. Master of Science program

- Combines planning theory and practice and the Icelandic circumstances, aiming for sustainable development and the creation of a livable environment
- emphasizes individual work as well as practical case studies where students tackle real problems, thus practicing skills for independent work

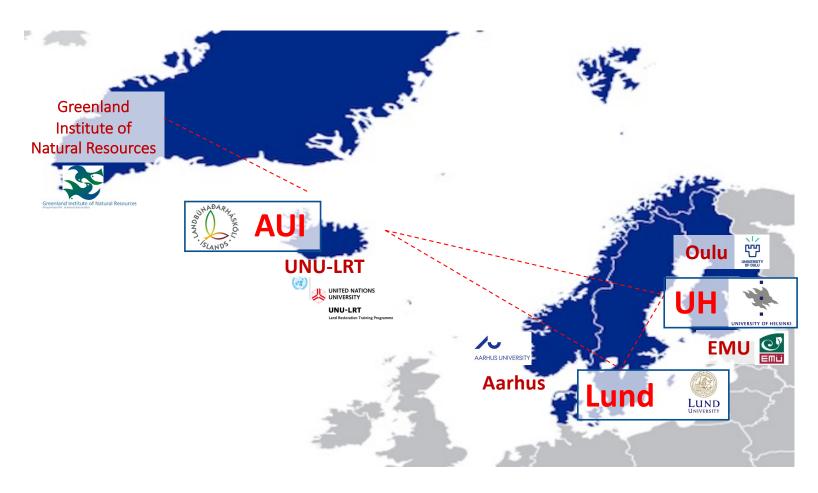








MSc-program EnCHiL = Environmental Changes at Higher Latitudes







Individually designed M.Sc

- · designed as an individually planned study scheme
- The aims of the program are to provide individual scientific education and training in the relevant field of science

Doctoral Program

- give students sound research training within selected academic fields
- The Program is run jointly with the Centre of Graduate Studies at the University of Iceland (UI)

University campus at a RAMSAR Site



- Andakíll Protected Habitat Area was designated as a Ramsar Site in 2013
- Important resting, feeding and breeding area for wetland birds
 - Greenland White-fronted goose (resting and feeding)
 - Shelducks
 - White-Tailed Sea Eagle





The *United Nations* University Land Restoration Training Programme (UNU-LRT)

- provides a postgraduate training for specialists from the developing countries in the broad field of restoration of degraded land and sustainable land management, and aims at assisting developing countries in capacity development within this field.
- six-month training program in Iceland on land restoration and sustainable land management





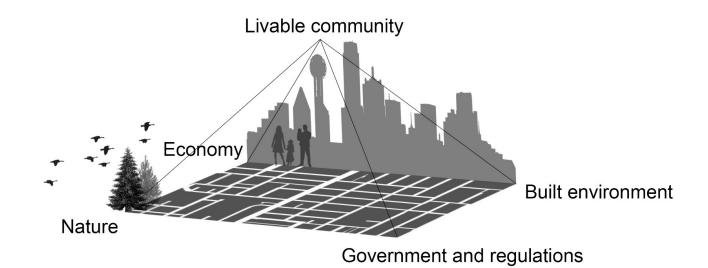






- The Faculty of Planning and Design conducts research and teaching in the fields of planning sciences and landscape architecture. The Faculty focuses on planning, design, construction, and management of our environments. The strategy of P&D aligns broadly with the strategy of the AUI, in that the emphasis is on enhancing research, teaching, innovation and international collaboration. Further, the emphasis of activities within P&D on environmental issues and planning different land use contributes to distinguishing AUI from other universities in Iceland.
- The role of the Faculty is to strengthen research, teaching, and innovation in the fields of landscape architecture and planning with a focus on the sustainable development goals. As the world continues to urbanize at an unprecedented rate, the demand for our work in P&D is more urgent than ever. Our planners, designers, and landscape architectures innovators are working to empower communities, protect natural and cultural environments, and confront the most pressing challenges of our time.

PLANNING MS



The Planning pyramid. Kristjánsdóttir 2018,p.8.

Maria Wilke PhD student

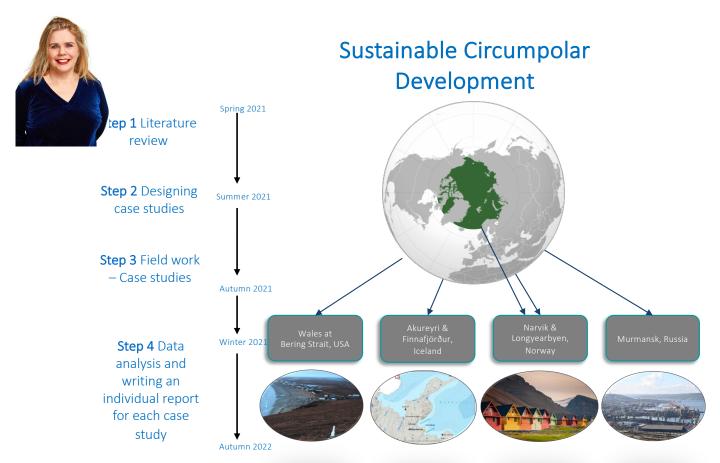
Resilient Sustainable Coasts (COAST)



Uarctic Thematic Network (TN)

- Thematic Network (TN) *Local-scale Planning, Climate Change and Resilience*. Partner in the TN since September 2019.
- Graduate Seminar on Climate Change Impacts and Responses in the Arctic April 26, 2021 10am to 12:30pm (MDT) University of Alberta (via Zoom)
- Co-hosting a seminar at the UArctic Congress in Reykjavik, October 6-8, 2020 – post ponded (Online) May 15-18 2021





Step 5 Publishing a peer reviewed article containing a check list for Sustainable Circumpolar Development

URBAN PLANNING AND ENVIRONMENT SERIES EDITORS: DONALD MILLER AND NICOLE GURRAN

URBAN PLANNING AND ENVIRONMENT

Nordic Experiences of Sustainable **Planning** Policy and Practice Edited by Sigríður Kristjánsdóttir, Assistant Professor, Faculty of Natural Resources and **Environmental Sciences**, Agricultural University of

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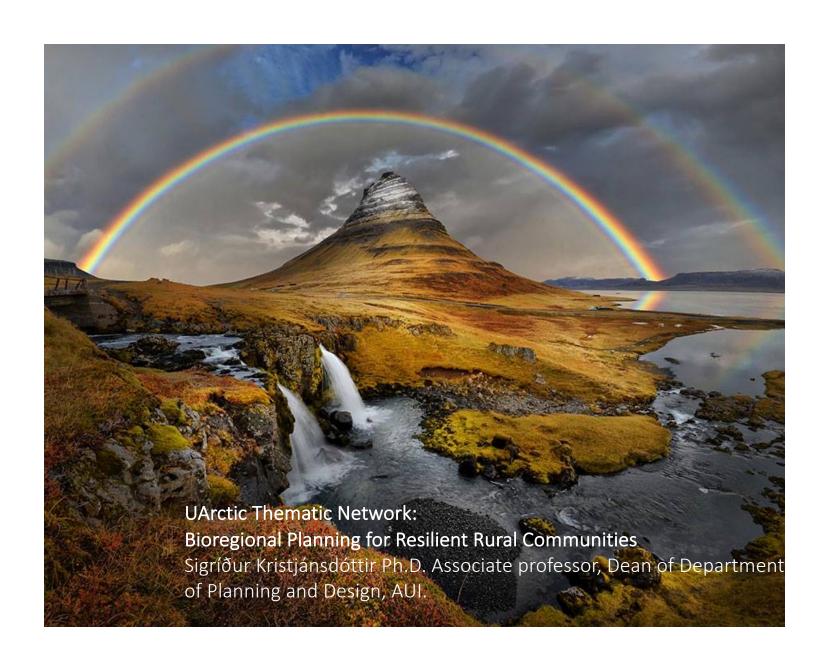


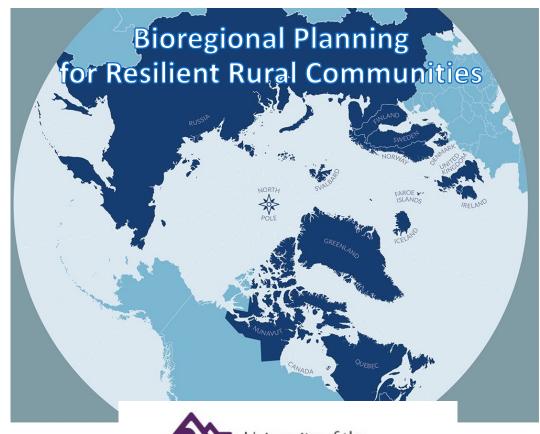




Edited by Sigríður Kristjánsdóttir







University of the Highlands and Islands Oilthigh na Gàidhealtachd agus nan Eilean

Region University Network Opportunity





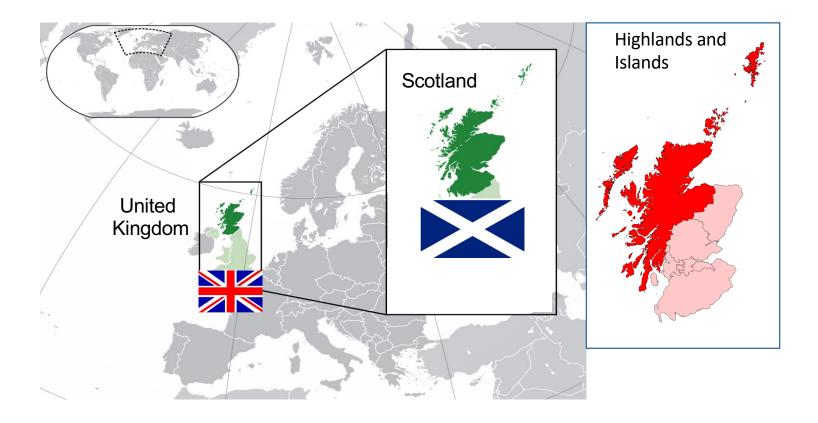




Prof Stuart Gibb

Region: Geography





A well known region..





The region

- Distinctive region: **History, culture, environment**
 - > 100 inhabited islands
 - ~10,000 km coastline
 - extensive mountain regions
- Population: 489,330 < 10 % Scotland
 - ~ 60 % landmass
 - 9 persons per km²
 - distinctive socio-economics
- Share common challenges & opportunities with regions around High North and Arctic regions
- Founding Member of UArctic (non-Arctic)







Region: Economy

University of the Highlands and Islands Oilthigh na Gàidhealtachd agus nan Eilean

A 'mosaic' of economies. But compared to Scotland as a whole:

- + tourism and recreation
- + agriculture, aquaculture, forestry and fishing

- professional, scientific and technical

+ public sector

+ small businesses / seasonal

Growth sectors include: Renewables, Food and drink



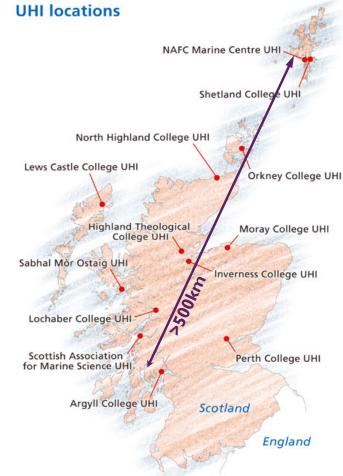


The University of the Highlands & Islands (UHI)



- Distinctive regional model of 13 partners
 - Further + higher education colleges + Specialist colleges + Research institutions
- Scotland's newest University (2011)
- Scotland's most northerly University

- Encompassing further & higher education and research
-enriched by the people, natural environment, economy, culture and heritage of our region and its communities









Bioregional Planning for Resilient Rural Communities Network

- international network of interdisciplinary researchers

Mission

To have a transformational impact on the prospects of our region, its economy, its people and its communities

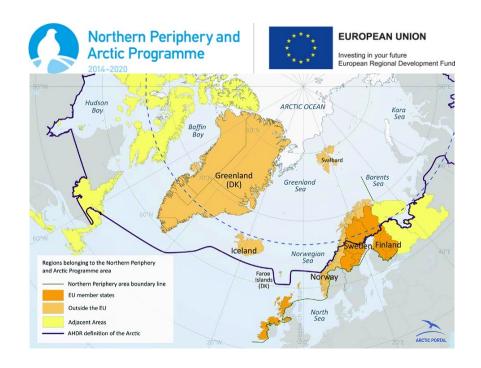
Share common challenges & opportunities with regions around High North and Arctic regions

Thematic Focus

- understanding the role that bioregional & systems strategies can play in supporting rural Northern communities
- activating those strategies in an intentional, place-based way to promote resilience in the face of climate change & other disruptive events

Relevant activity e.g.

















Key characteristics



- Interdisciplinary
- beyond international......inter-regional
- inter-generational often missed
- "people of the place". At the core not an add-on



Helping meet challenges





Extending the invitation



- New UArctic Network Initial partnership
- Developmental phase
- Opportunity to join us to
 - help shape network
 - make it it work for our regions!

















Stuart.Gibb@uhi.ac.uk

UArctic Thematic Network "BIOREGIONAL PLANNING FOR RESILIENT RURAL COMMUNITIES" Tyumen State University

Webinar: SEPTEMBER 14, 2021

Speaker: Elena Gladun, PhD in Law

professor of Public Administration Department

Fulbright Arctic Initiative researcher

efgladun@yandex.ru







Research projects in the region



Carbon Polygon (1st in Russia)









International Summer School "Way to the North"





Tyumen State University:

Who we are and what our institution does?

Tyumen Region: specifics

- Rural communities are currently experiencing transformation processes leading to a strong differentiation in the quality of life in rural settlements
- Disparities in infrastructure development and natural resources
- Unfavorable bioclimatic, bioresource conditions
- Youth migration from rural communities
- Economic growth VS deterioration in the quality of the environment and a reduction in natural capital

Tyumen State University:

Who we are and what our institution does?

Our project: REGION GREEN TRANSFORMATION: VALUES, PRACTICES, SOCIO-ECONOMIC EFFECTS

Project group: Olga Zakharova, PhD in philosophy, associate professor, olga.hazarova@mail.ru
Natalia Zherebyatyeva, PhD in Geography, associate professor, n.v.zherebyateva@utmn.ru
Irina Akhmedova, PhD in Social Geography, researcher Natalia Viktorova, PhD in Economics, associate professor

REGION GREEN TRANSFORMATION: VALUES, PRACTICES, SOCIO-ECONOMIC EFFECTS

What is our project's focus on?

We aim: to explore conditions and to develop mechanisms and tools of planning, regulating and implementation of green practices and green values in the region enhancing its socio-economic development and "greening" of all activities and decisions

Expected result: to design a regional strategy systemizing institutional, organizational, legal and technical measures to support green practices and green businesses in Tyumen Region

Term of realization: 2019-2023

REGION GREEN TRANSFORMATION: VALUES, PRACTICES, SOCIO-ECONOMIC EFFECTS Why are we joining the network?

We aim: discussion, joint development of tools and strategies for sustainable regional development (for example, risky agriculture, preservation of natural capital and biocapacity in the northern territories) Expected result: case-studies, policy briefs, joint publications, students' projects and curriculum development

BIOREGIONAL PLANNING FOR RESILIENT RURAL COMMUNITIES

Why are we joining the network?

Analytical work
(cases-studies and
models of different
countries)

Projecting work
(joint development of transformation tools and instruments)

Planning work

(policy briefs, regional strategies, publications, curriculum)

Study of the current condition in Russia: statistical data, social networks, interviews, discussions with stakeholders



Database of "green practices" and bioregional planning Information platform "Green networking" Interactive map of green practices in Russian regions

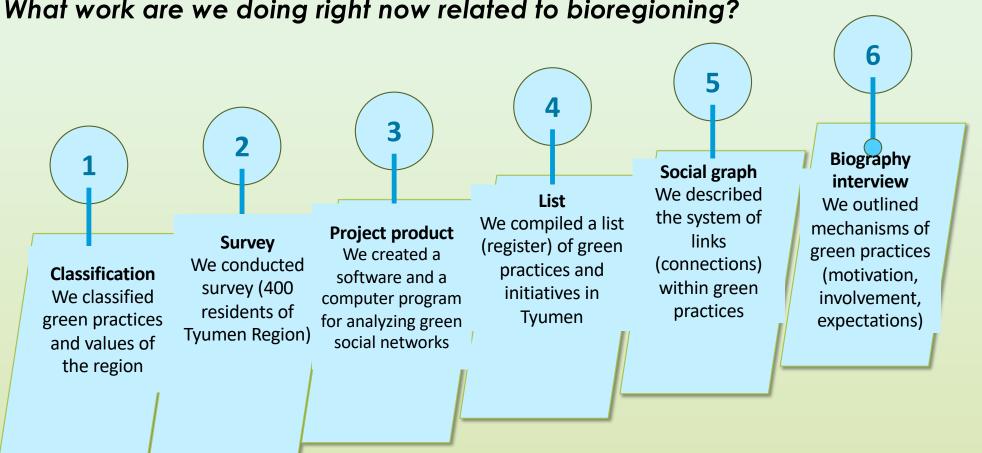


Green transformation model Recommendations for decision-making authorities Roadmap Timelines, etc.

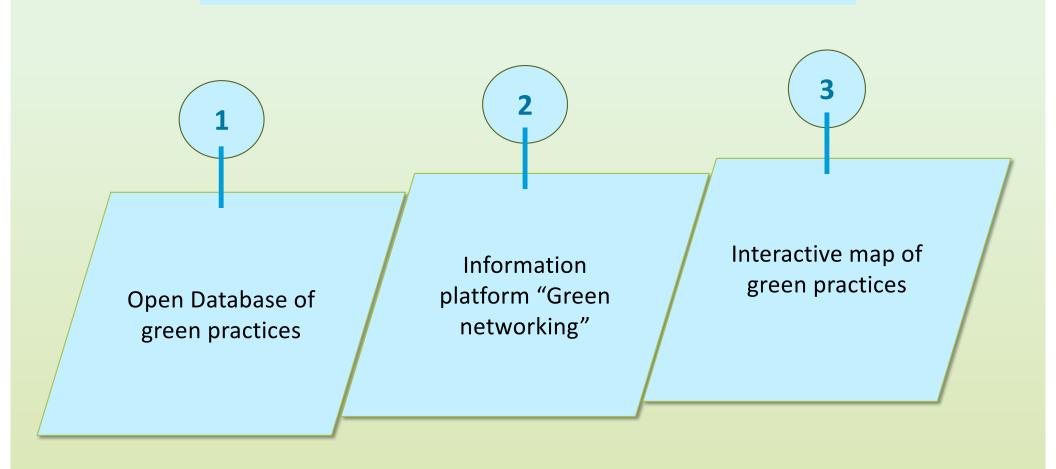
Regional green transformation

REGION GREEN TRANSFORMATION: VALUES, PRACTICES, SOCIO-ECONOMIC EFFECTS

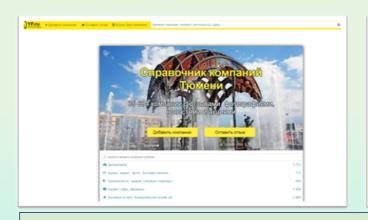
What work are we doing right now related to bioregioning?

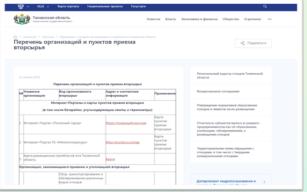


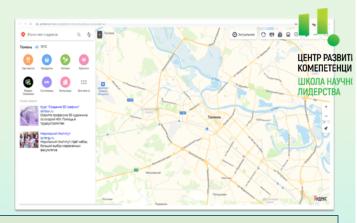
Project products

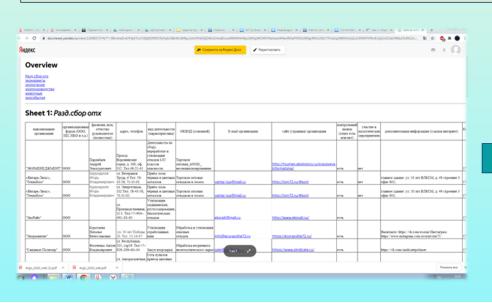


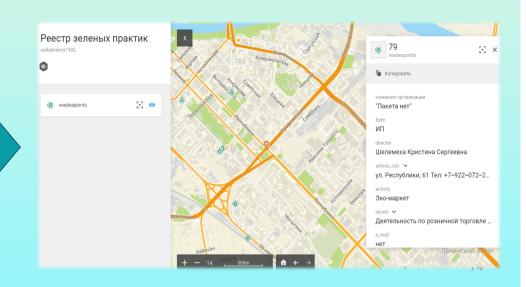
Open database of green practices

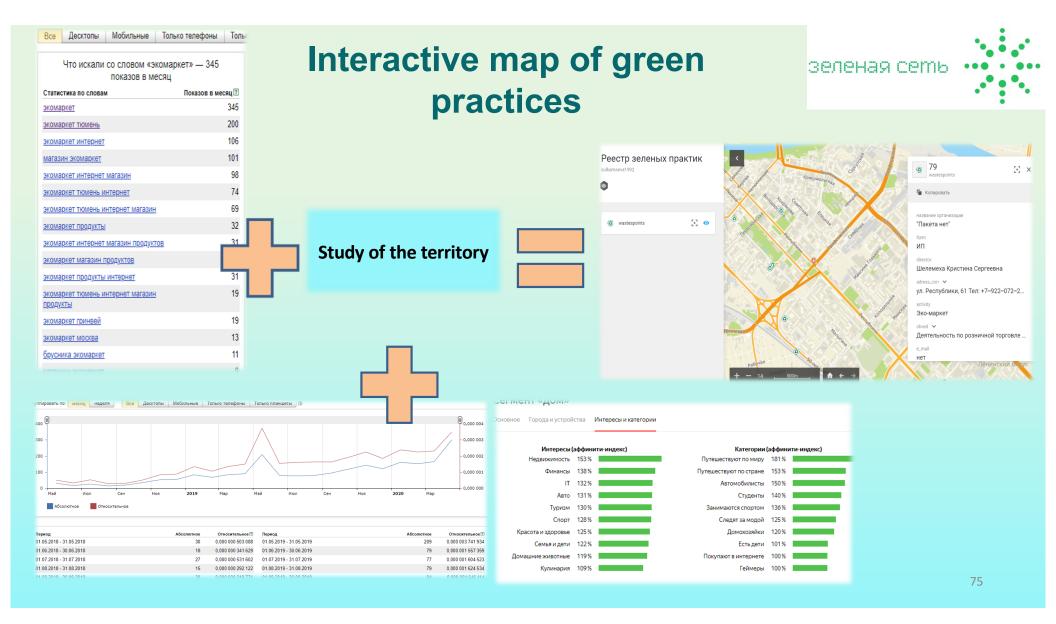


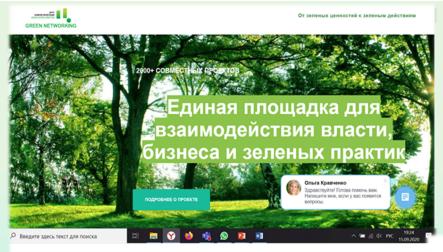




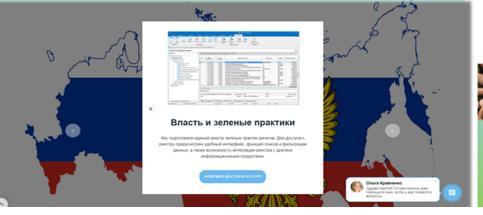












ОТ ЗЕЛЕНЫХ ЦЕННОСТЕЙ К ЗЕЛЕНЫМ ДЕЙСТВИЯМ

подробнее о проекте

Власть и бизнес услышат ваш ronoc!

