

Cooperation for ecosystem based planning of the marine environment using GIS



http://seagis.org

Project leader: Jens Perus







Aim of SeaGIS

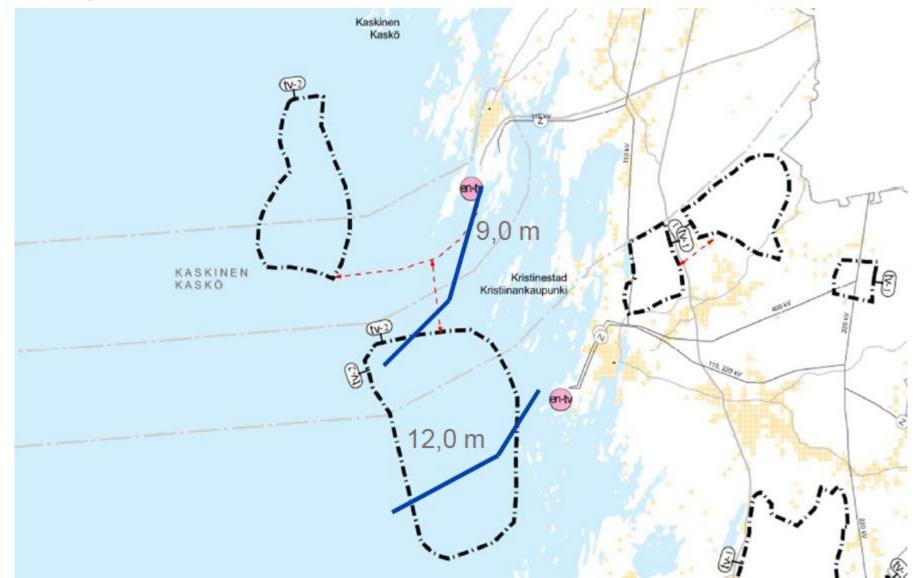
The overarching aim of SeaGIS is to produce an increased knowledge base and make it more accessible in order to increase the possibilities of a coordination of ecosystembased regional holistic planning of marine areas and create a common platform for knowledge storing, planning and future decision making in the Kvarken region.

Quark region

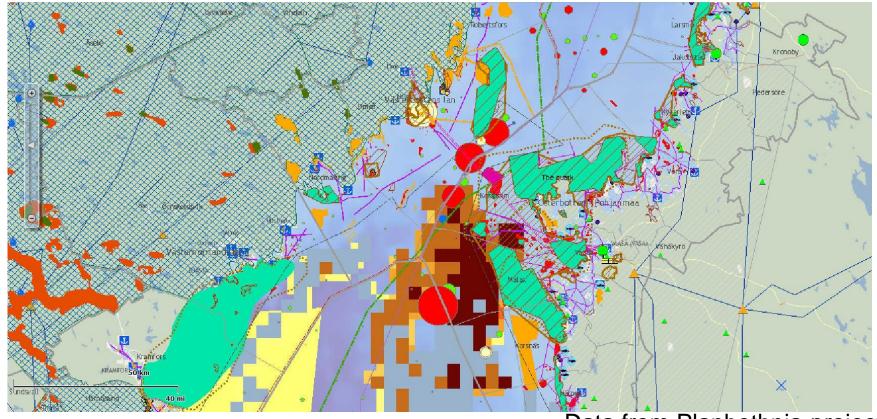


SE: 4 municipalities

Shipping route—Windpower park Pohjanmaan vaihemaakuntakaava 2, luonnos, 19.12.2011



The Quark



- Natura 2000
- UNESCO sites
- Cables
- Tourism
- Risk of oil spills

- Fish catches
- Spawning areas
- Harbours
- Bird areas

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Data from Planbothnia-project

- Wind energy
- Fairways
- Military
- Seal protection areas



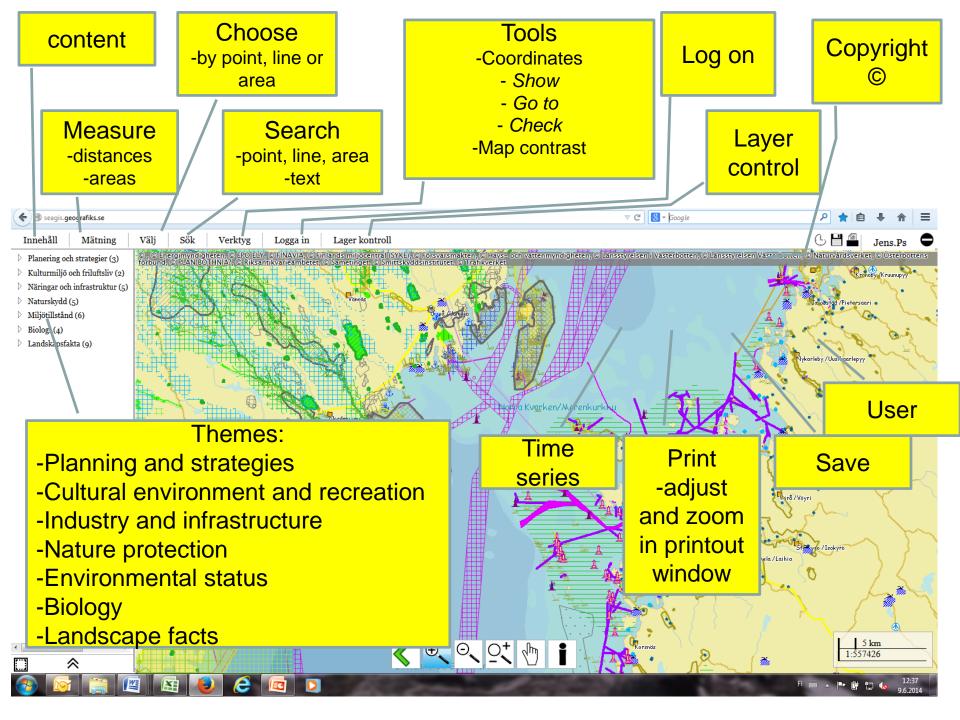


- Development of a transregional GIS-based knowledge platform for storing of data and analysing different marine planning situations.
 - Tool for commucation of errands and projects between public, endusers, sectors and responsible planning administrations.
- Thorough pilot-testing on different planning scenarios and scales of the developed planning data found in GIS-based knowledge platform
 - Local, regional and transboundary
- Support FI-SE implementation of EU MSD in a common sea area in the Quark

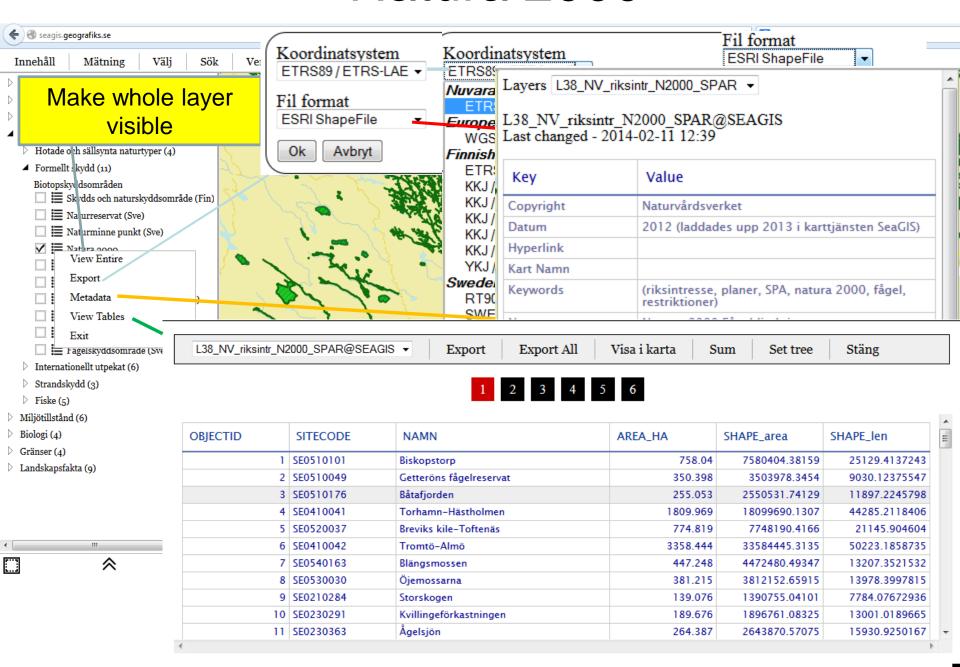
The platform

- Bilingual (Finnish, Swedish)
- Harmonized styling
 Harmonized styling
 Files between corresponding
 FI-SE data
- Landskap Sfakta Transboundary
 - Open & accessible
 - User-friendly
 - Meets INSPIRE
 - Functions i multiple coordinate systems
 - Contains ~550 GIS layers out of which 300 visible

- Allows download of GISdata
- Do not consume WMS, but exports the service
- Functions as a tool for communication between end-users
- Can be used for requesting geographical observations or information from public over internet

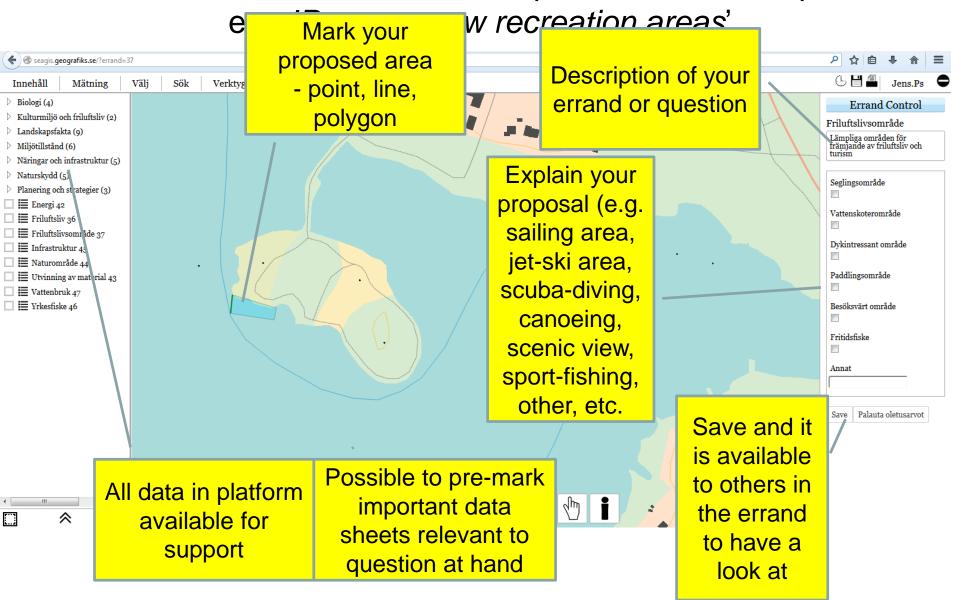


Natura 2000



Errands or communication

between administrations, municipalities or with the public



Administration

- 4-5 organisations with full administration rights (2-3 per country)
 - Can upload/updateGIS-data
 - Make errands / GISsurveys

- Cost
 - ~10 000euro/year
- Platform basis built
 - Good foundation for geographicla expansion to neigbouring regions

Problems

- Had to obmit data due to request for money for delivery
- Data owners choose not to show data, due to low confidence in accuracy
- Classified data (settle for coarser resolution)
- Transformations of data
- Coordinate systems

Sucesses

- Great tech-support from platform-consultants
 - Allowed us to evolve from original ideas
- Low costs for upholding system
- Easy administration
- Public communication tool
- Serve tourism?
- Regional Helcom HUB-model with riskanalysis
- Diverse content (social, cultural, environment) in high-resolution environment

SeaGIS- a best practise



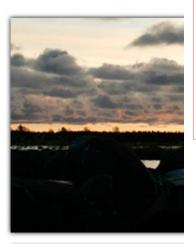


cessibility

rivate area

Newplatter





What is Nostra Pro

Nostra follows the overall biodiversity and natural he



NATURAL ENVIRONMENT

The SeaGIS project



Location Kvarken (Sweden/Finland)

Partner(s) Kvarken Council

Timescale 2012-2014 and onwards

Funds INTERREG and national funds

What is it?

The SeaGIS project is an INTERREG IVA project that aims at providing developers and decision-makers with tools and data, given the extra difficulties involved in doing spatial planning in a three-dimensional marine environment. The project has the further purpose of communicating this information to the general public.

Origin of the practice

The SeaGIS project is anticipating the EU Directive on Maritime Spatial Planning & Integrated Coastal Management: regional environmental and planning agencies wanted to be ready for the implementation of cross-border marine spatial plans in the region.

Objectives and implementation

The objective of the SeaGIS project is to expand knowledge of the Strait of Kvarken and to make it more accessible to enhance the possibilities for planning marine areas at regional scale. General public will have access to an internet based multilingual knowledge platform, in which most available data concerning the environment, infrastructure and socio-economic will be presented. All responsible environmental and planning authorities on both sides of the Kvarken strait are involved in the project. Municipalities are involved in pilot studies and provide relevant data to be uploaded on the platform. Universities on both sides of the Kvarken have looked into existing (maritime, environmental and planning) national legislation and made researches on how the current planning system works and how to approach forthcoming ecosystem based planning in the Kvarken area.

network of straits

Key success factors

The SeaGIS project is an interesting practice because it anticipates the EU directives on marine spatial planning and preservation of coastal ecosystems at a cross-border level. It participates to a deeper and shared knowledge of the strait's natural environment, which is not always an easy thing considering the difficulties for some authorities to share data for free.

Similar studies and reflexion on the current planning system could be transferred to other straits to improve their capacity-building and to answer to the needs identified by the NOSTRA baseline study.

Contact Jens Perus and Johnny Berglund Website http://seagis.org/

Completion of Seascapes Character

issues of economic development, transport,





Consortium

Lead partner:

Centres for Economic Development, Transport and the Environment in southern Ostrobothnia

Partners:

Åbo Akademi University University of Vaasa County administrative board of Västerbotten Umeå University IGIS Metsähallitus















Cooperating with: Kvarken Council, Regional Council of Ostrobothnia, Region Västerbotten, Finnish Transport Safety Agency, Municipalities in Finland and Sweden.

Thank you for your attention!

For more information or questions, contact:

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