



# our ecosystem



Karin Viergever



# our ecosystem

## Interact with data



### ***Hard copy reports***

- *Stored on file*
- *Out of date as soon as published*
- *Static*



- *Generated on demand*
- *Based on current data*
- *Interactive*



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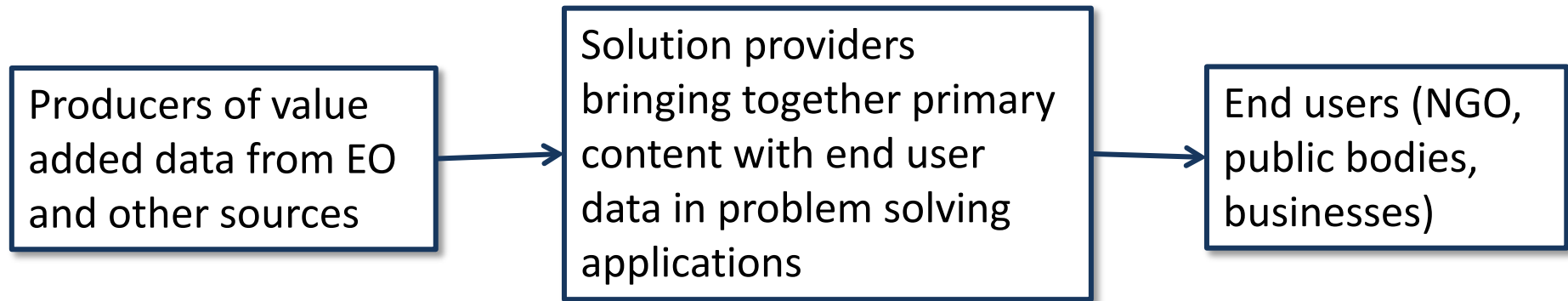
**OE is a powerful web-based mapping platform**

- Every app addresses a specific problem
- Easy access, fast responses
- Distribution of VA data products to multiple end user applications
- Improve collaboration between scientists, business, regulators and civil society



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## The “ecosystem” of users:



Communication, collaboration, data sharing





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## Current users include:

Universities and Research Institutes  
(incl. 2 FP 7 projects: OPERAs and GREEN SURGE)

Businesses

esa





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[Carbonmaps.ourecosystem.com](http://Carbonmaps.ourecosystem.com)

[iCoast.ourecosystem.com](http://iCoast.ourecosystem.com)





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Thank you for your time!

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[www.ecometrica.com](http://www.ecometrica.com)

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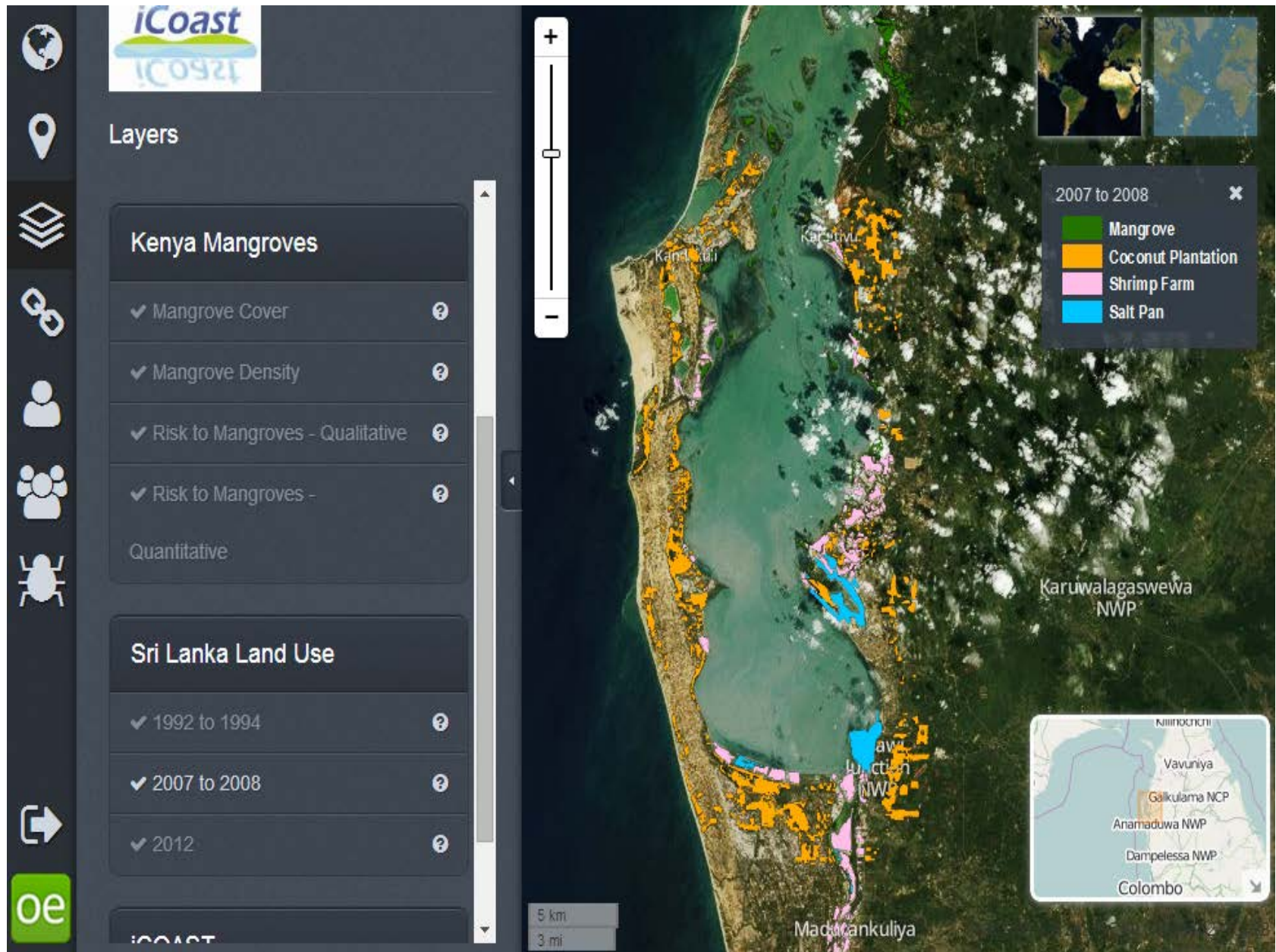


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Appendix slides,  
in case of internet failure



# View data



# Investigate AOIs

The screenshot displays the iCoast web application interface. The left sidebar contains navigation icons for home, location, layers, links, and user profile. The main panel shows a list of 'Areas' under the 'Sri Lanka' category, including Batticaloa, Kalpitya, Negombo, Pambala-Chilaw, Puttalam, and Rekawa. The map on the right shows a satellite view of the eastern coast of Sri Lanka, with several AOIs highlighted in orange: Karakuli, Karaitivu, Puttalam, Palaw Junction NWP, Karuwalagaswewa NWP, and Madurankuliya. A scale bar at the bottom indicates 5 km and 3 mi. An inset map in the bottom right corner shows the location of the study area within Sri Lanka, with labels for Vavuniya, Galkulama NCP, Anamaduwa NWP, Dampellessa NWP, and Colombo.

**iCoast**

**Areas** [+ Add New Area](#)

- My Areas
- Kenya
- Sri Lanka
  - Batticaloa
  - Kalpitya
  - Negombo
  - Pambala-Chilaw
  - Puttalam
  - Rekawa

**Map Labels:**

- Karakuli
- Karaitivu
- Puttalam
- Palaw Junction NWP
- Karuwalagaswewa NWP
- Madurankuliya


**Scale:** 5 km, 3 mi

**Inset Map Labels:**

- Vavuniya
- Galkulama NCP
- Anamaduwa NWP
- Dampellessa NWP
- Colombo



# Extract information



Areas [+ Add New Area](#)

My Areas

Kenya

Sri Lanka

Batticaloa

Kalpitya


Negombo

Pambala-Chilaw

Puttalam

Rekawa


## Puttalam





5 km  
3 mi

[Query Results](#) [Edit Description](#)

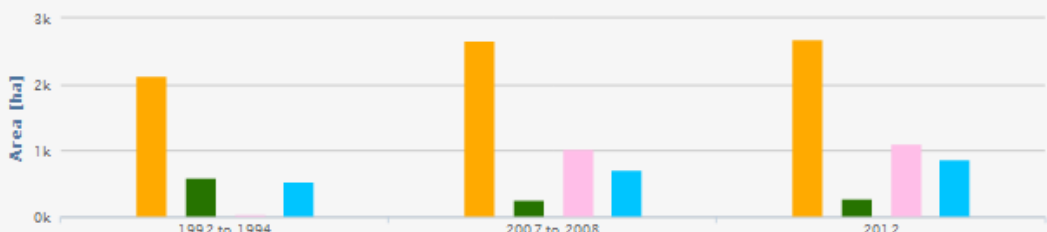
### Details

 AREA  
38,254 ha

 PERIMETER  
84,974 m


 [Report as PDF](#)

### Kalpitya-Puttalam Land Use Changes



Period	Orange Bar (ha)	Green Bar (ha)	Blue Bar (ha)
1992 to 1994	~2100	~500	~400
2007 to 2008	~2600	~200	~600
2012	~2600	~200	~800

# Extract information 2

  
**Areas** + Add New Area  

My Areas

Kenya

Sri Lanka

Batticaloa









Kalpitya

Negombo

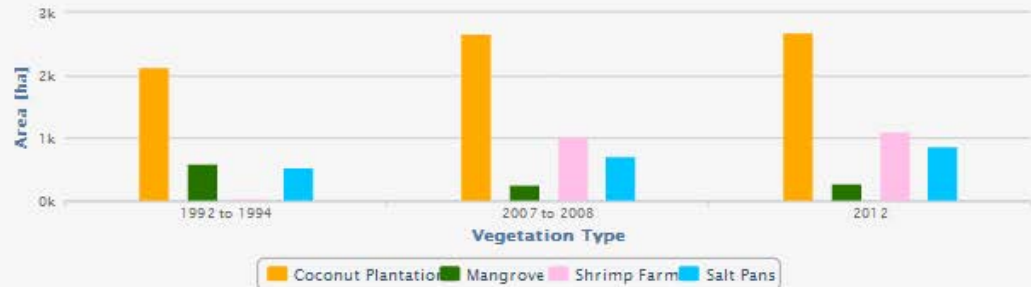
Pambala-Chilaw

Puttalam

Rekawa

## Kalpitya-Puttalam Land Use Changes







These results show the difference in extents in hectares between 4 different types of land use: mangrove cover, coconut plantations, salt pans and shrimp farms. The same area in Kalpitya-Puttalam was mapped using Landsat and SPOT for 3 time periods between 1992 and 2012.

\* Please note the query results are based on the mapped extents for the project areas. The mapped extents can be viewed under the 'Map Layers' tab.

## Kalpitya-Puttalam Land Use 1992 to 1994

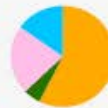
Area







Land Use		Area [ha]	% Coverage
	Coconut Plantation	2,125	5.5
	Mangrove	601	1.6
	Shrimp Farm	41	0.11
	Salt Pans	538	1.4

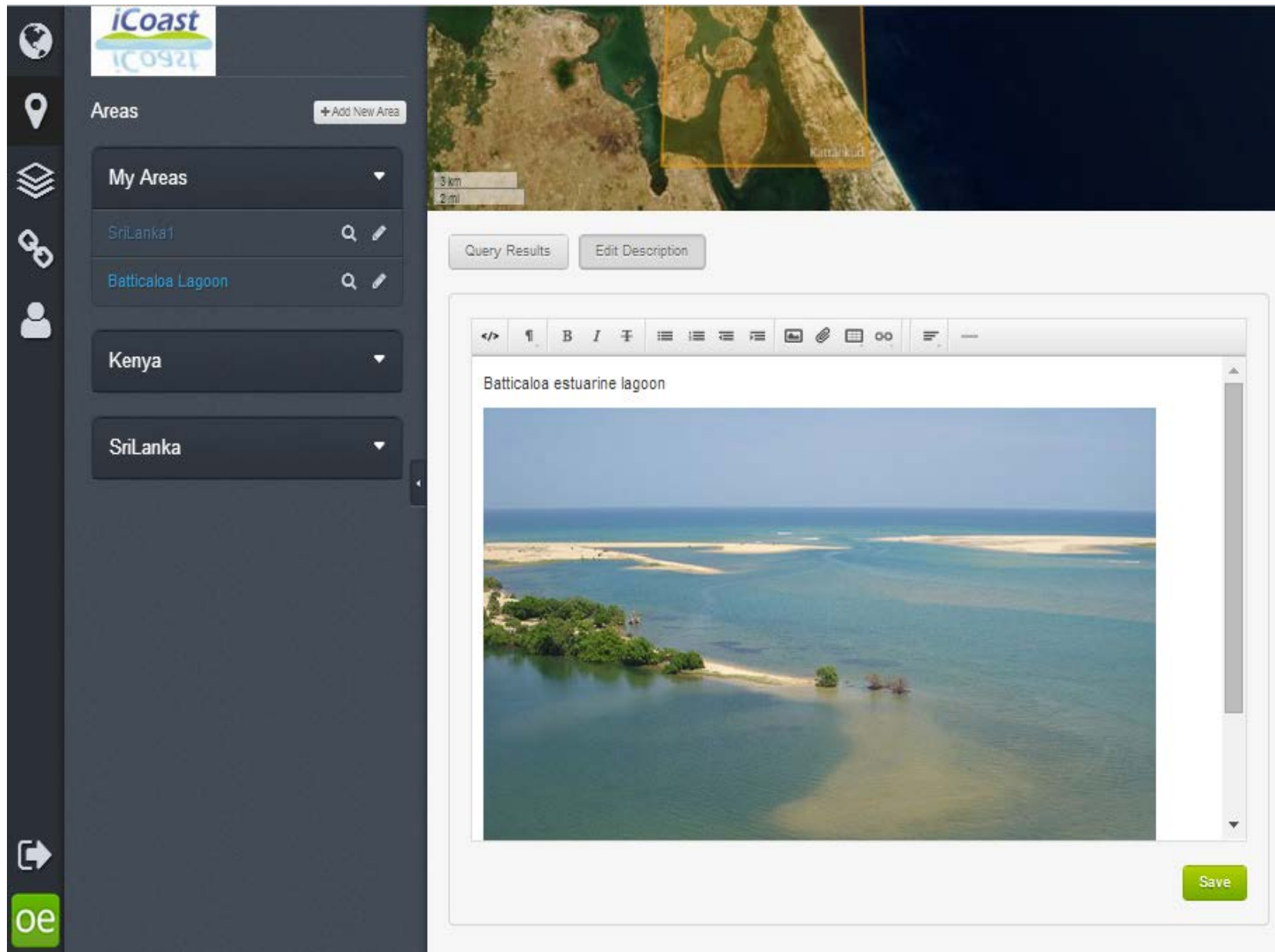
## Kalpitya-Puttalam Land Use 2007

Area



Land Use		Area [ha]	% Coverage
	Coconut Plantation	2,671	7.0
	Mangrove	251	0.65
	Shrimp Farm	1,021	2.7
	Salt Pans	703	1.8

# Add narrative information for AOsIs



The screenshot displays the iCoast web application interface, which is used for managing coastal data and narrative information for Areas of Interest (AOIs).

**Left Sidebar:**

- iCoast logo**
- Areas** section with a **+ Add New Area** button.
- My Areas** dropdown menu showing a list of areas:
  - SriLanka1
  - Batticaloa Lagoon
- Kenya** dropdown menu.
- SriLanka** dropdown menu.
- oe** logo at the bottom.

**Main Content Area:**

- Map View:** A satellite map showing a coastal area with a yellow rectangular box highlighting a specific region. A scale bar indicates 5 km and 2 mi.
- Query Results** and **Edit Description** buttons.
- Description Editor:** A text editor with a toolbar containing icons for bold, italic, underline, list, link, and other formatting options. The text "Batticaloa estuarine lagoon" is entered.
- Image:** A large photograph of the Batticaloa estuarine lagoon, showing a wide expanse of water with a sandy beach and some vegetation in the foreground.
- Save** button at the bottom right.





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## Technical detail

- Ecometrica - development team
- Raster-based database
- Querying billions of rows, doing math on millions of rows – within seconds
- Generates and serves hundreds of millions of tiles