



CLIPC: User Expectations

Victoria Bennett, STFC

User Requirements work led by Annemarie Groot, Alterra,
with contributions from TEC, HZG and MetNo



CLIPC Mission

- CLIPC will provide access to climate information of direct relevance to a wide variety of users, from scientists to policy makers and private sector decision makers;
- The “one-stop-shop” platform will provide data and information on climate and climate impacts, and ensure that the provenance of science and policy relevant data products is thoroughly documented;
- Engage with user communities to inform development.

22 partners, 9 countries + 1 international

UK

STFC
Magellium Ltd.
Univeristy of Reading
UK Met Office
British Oceanographic
Data Centre

Netherlands:

Dutch Met Office
Alterra
Maris

Germany:

Technical Uni.
Dortmund
Potsdam Inst. for
Climate
Climate Services
Centre

France:

IPSL
CERFACS
TEC

Finland

Met Office
Environment Agency
(SYKE)

Sweden

SMHI
Linköping University

Norway

Met Office

Italy

CMCC

Spain

University of Barcelona

International

Joint Research Centre



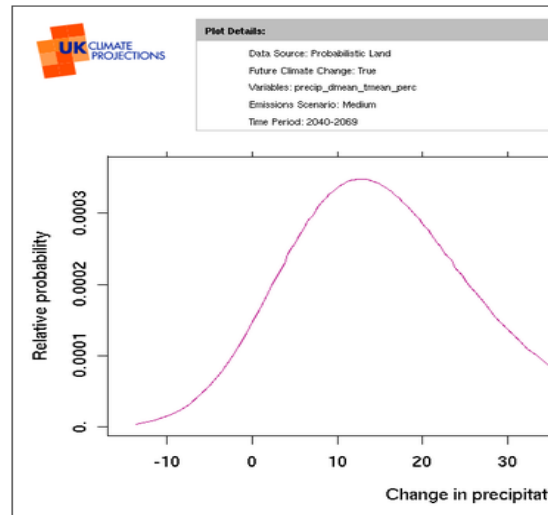
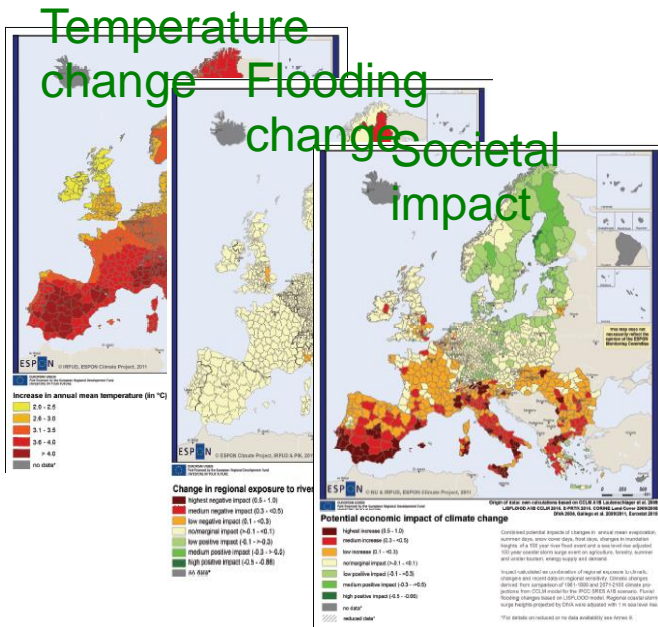
CLIPC is one of 5 projects funded in the last FP7 SPACE call to support the launch of the Copernicus Climate Change Service



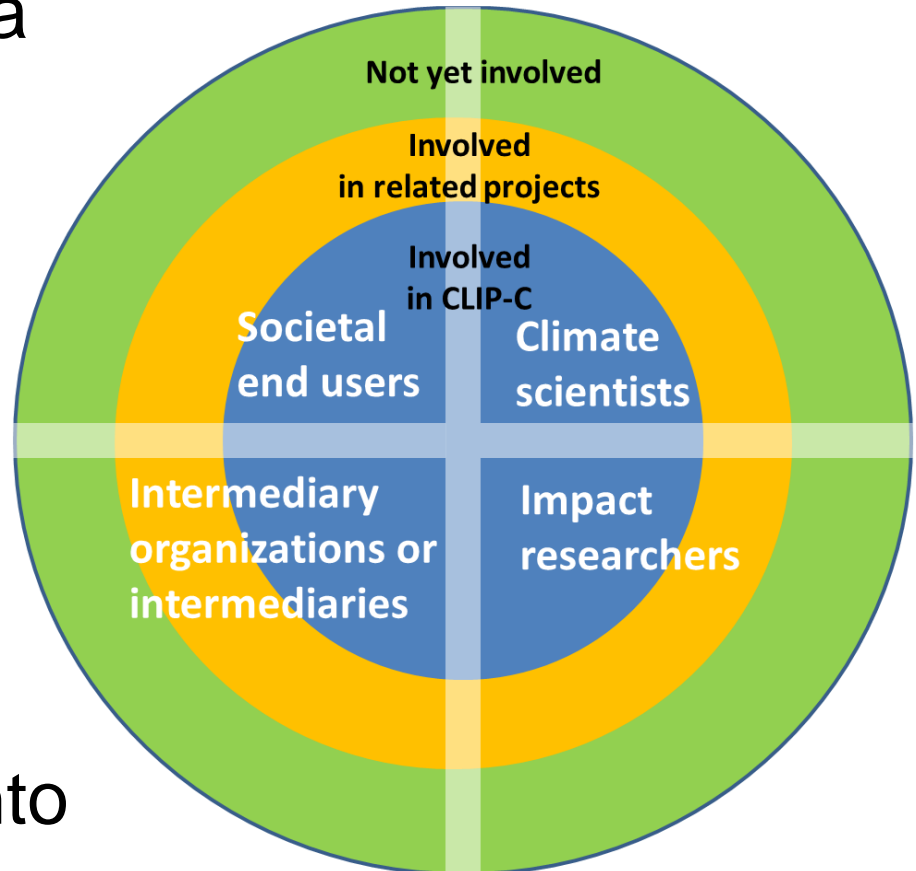
Euclidea



- Provide harmonised access to data from many sources;
- Information on data value and limitations;
- Indices of climate change and climate change impact;
- A knowledge base of authoritative information;
- A toolkit to update and extend the collection of indices.

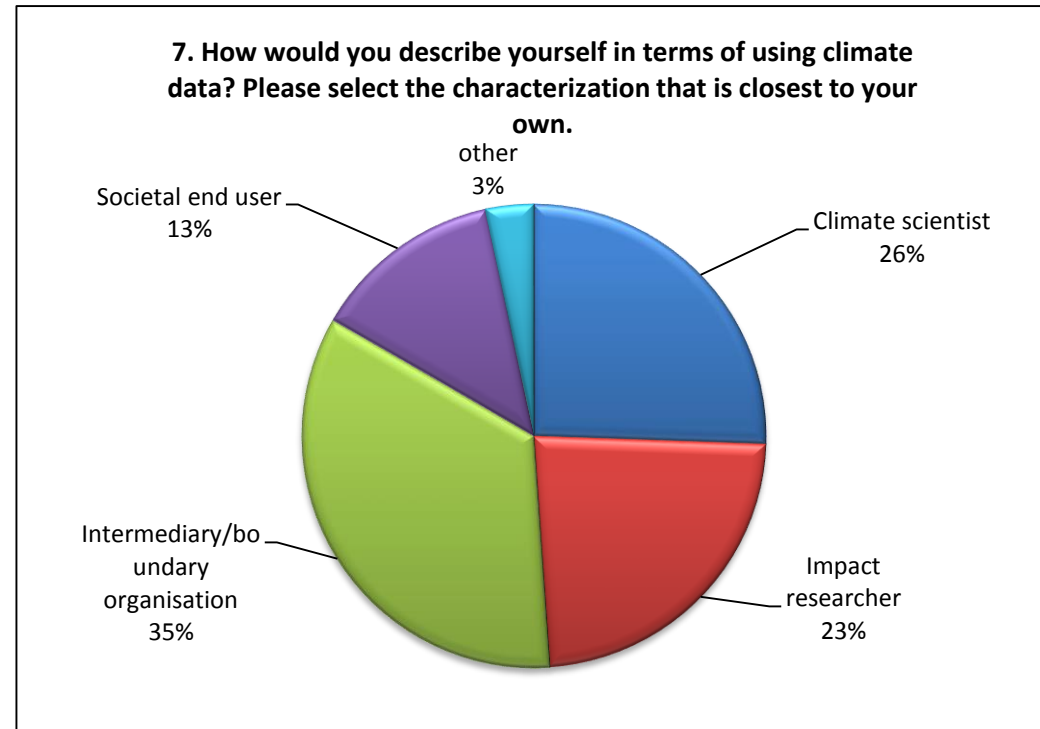
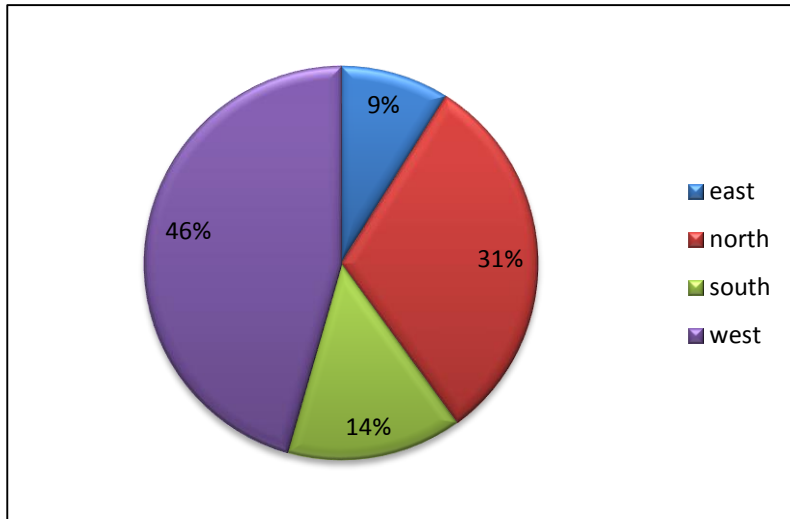


- Important for developing a user-oriented portal
- Learning from past and ongoing project and networks
- Four different user categories
- Online survey and interviews: first insights into user requirements

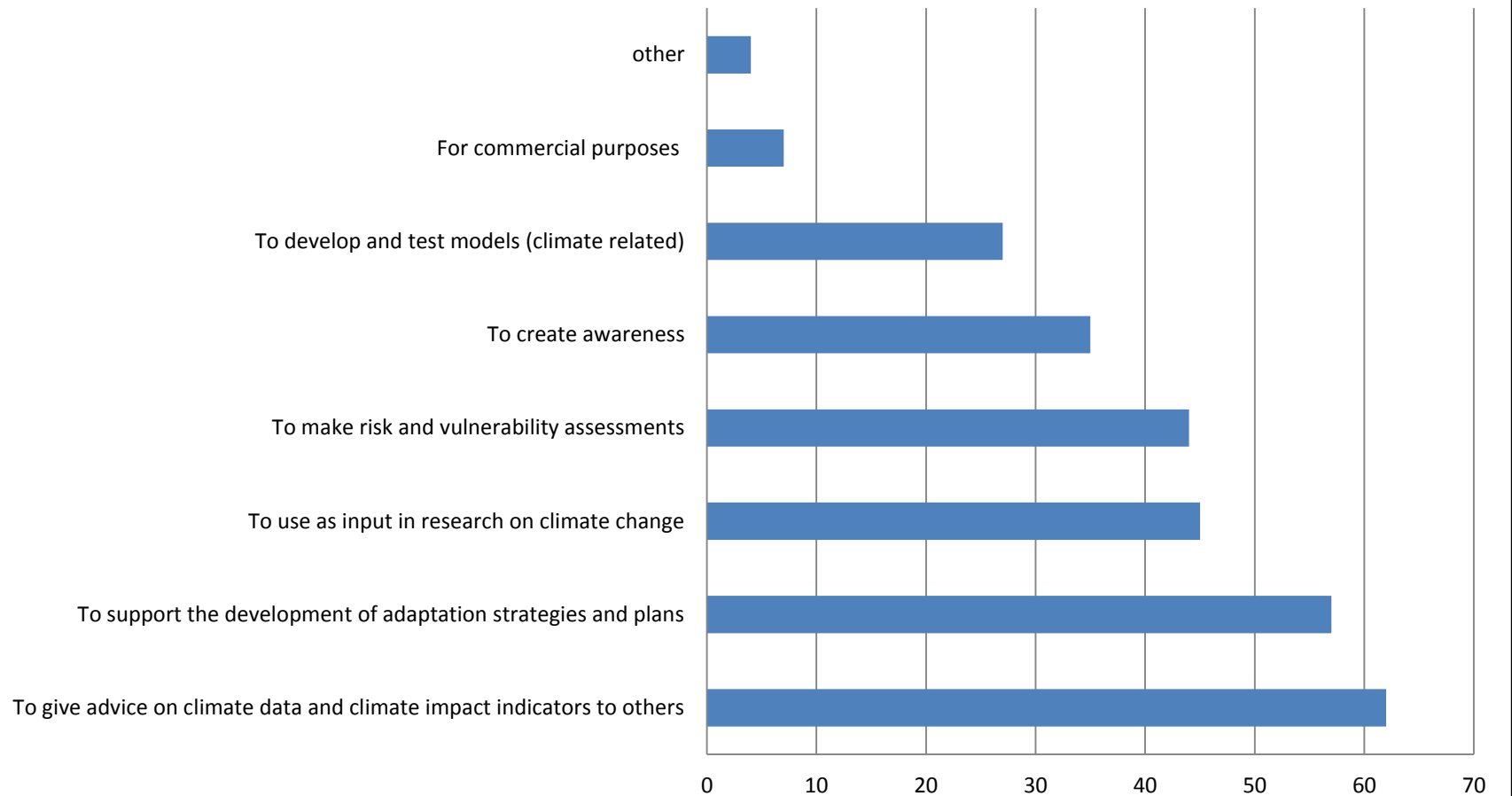


1. June 2014: **survey** of interested users
2. From September 2014: capturing user needs – questionnaire and **interviews** (skype/tel)
3. February 2015: **workshop** on consolidating user needs and presentation beta-version portal
4. From October 2015: **user panel** periodically provides feedback on evolving portal

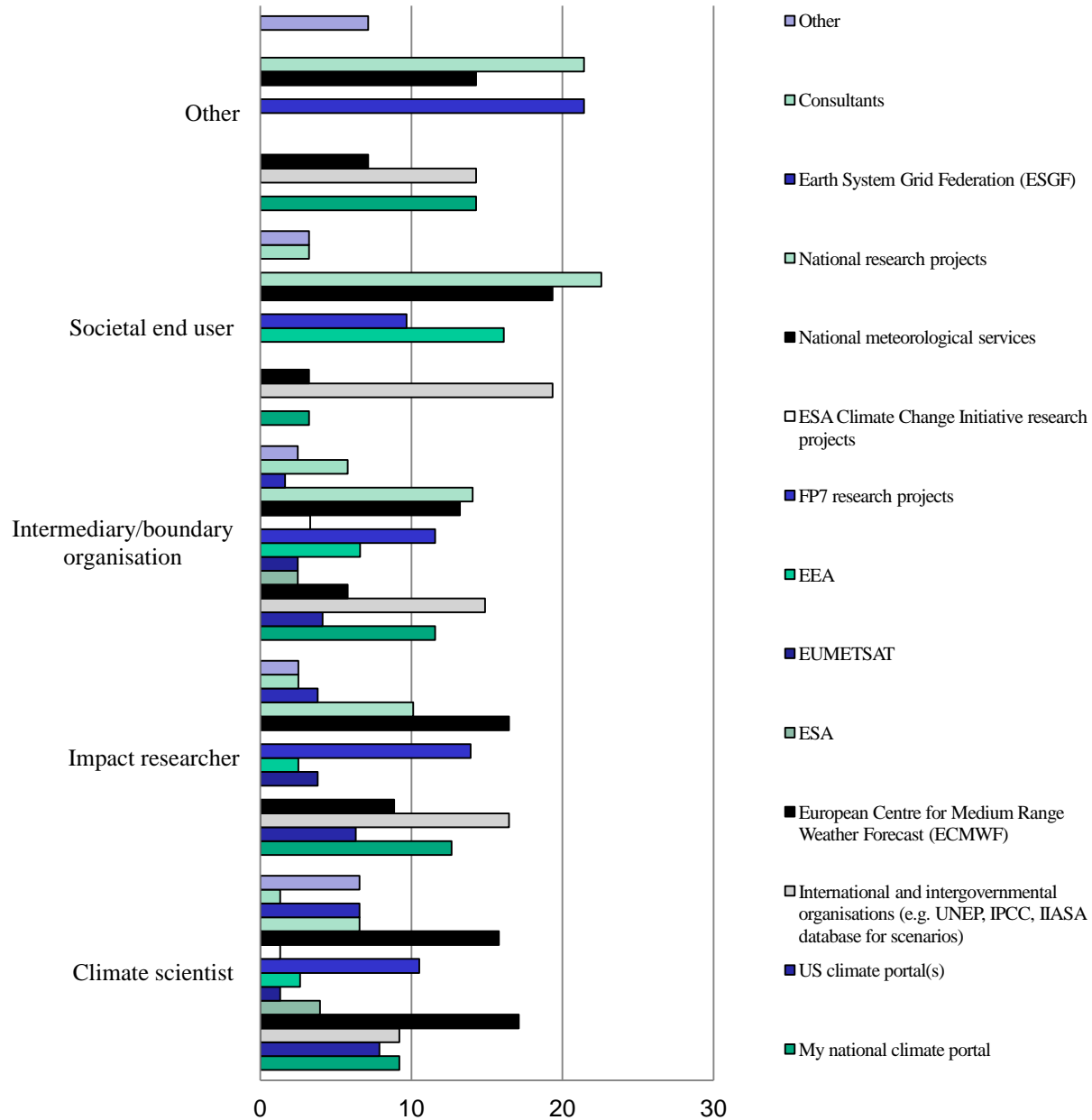




8a. For what purpose do you require access to climate data and climate impact indicators?



Where do you currently retrieve climate data and climate impact indicators from?



User type	Top features ranked as very important
Climate scientist	Free open access Availability and quality of metadata
Impact researcher	Free open access Accessibility of data Information on uncertainty
Intermediary/ boundary organisation	Free open access Explanations of climate data and climate impact indicators Accessibility of data
Societal end user	Usage of understandable language Diversity of subjects Free open access

- Deepen understanding about requirements for data and impact indicators

	Climate scientists	Impact researchers	Intermediaries (or boundary workers)	Societal end users	Climate scientists/Intermediaries	Impact researchers/intermediaries
No. of respondents	8	8	4	2	2	1

User friendly and dynamic interfaces

- Supporting user to quickly retrieve data
- Connect data to relevant metadata
- Simple structure
- Control mechanism to prevent common mistakes
- Offer different search functions (eg sectors, regions) and include examples
- Flexible design – adapt to evolving needs, development of new indicators, research finding and observations
- Sustained interaction with other users
- Facilitating training for users



Data – impact indicators (examples)

- Raw data, model data, observational data, long term and seasonal predictions, ground data and satellite data, historical data, processed data
- Extreme values are needed, not just means
- Ensure data quality
- Standardisation (data, tools, ...)
- Resolution – need for high resolution data (impact researchers)
- Format: transformable, different formats provided
- Impact indicators: task at hand, economic impact indicators
- Metadata: important for all user categories
- Free access



Functionalities (examples)

Post processing

- Tools for simple calculations and visualising data
- Tools for grid and calendar harmonisation, downscaling and, spatial and temporal selection

Guided search

- Support team, FAQ, case studies

Personalised selection and browsing

- Possibility of personal bookmarks and saving personal queries



User Requirements Workshop 3 Feb 2015: objectives and focus

- To test, discuss and receive user feedback on components of the CLIPC portal
- To further specify and prioritise requirements for a data platform and climate impact toolkit
- To manage expectations
- To identify needs/opportunities for user consultation in the next 1.5 years

3 Feb 2015: User Requirements Workshop

- Three subgroups/topics for discussion:
 - Data format and access, finding the data
 - The CLIP-C Portal – architecture and interface
 - Impact data processing and exploration tools

25 participants from 3 user groups (climate scientists, impact researchers and intermediary organisations)



- Key outcomes:
 - Guidance, descriptive texts and explanations on both the data and on the impact indicators important for all users
 - Bias correction: already done, or users can correct if needed – guidance useful
 - Start at demand side – what do users intend to do with the data
 - Feedback system of users on data

- Key outcomes:
 - Added value of CLIPC is in availability of processing tools
 - Need global and regional model data
 - User-user interaction to share experiences, and how-to guidance
 - Maps seen as illustrative – also need trends in graphs
 - Uncertainty information (in words) needed
 - Involve end users in interface development





Interfaces for users from CLIPC homepage



CLIPC
Climate Information Portal

Home | The project | Access data and documentation | How it works | Finding your way | C3S Precursors

MyCLIPC processing service

Logged in: [username]

Datasets	Actions
Proin gravida nibh vel velit auctor aliquet.	[Dropdown] [Icon]
Aenean sollicitudin, lorem quis bibendum auctor, nisi elit consequat ipsum, nec sagittis sem nibh id elit.	[Dropdown] [Icon]
Duis sed odio sit amet nibh vulputate cursus a sit amet mauris.	[Dropdown] [Icon]
Morbi accumsan ipsum velit.	[Dropdown] [Icon]
Nam nec tellus a odio tincidunt auctor a ornare odio.	[Dropdown] [Icon]
Sed non mauris vitae erat consequat auctor eu in elit.	[Dropdown] [Icon]
Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.	[Dropdown] [Icon]
Processed dataset 1	[Dropdown] [Icon]

[Add from CLIPC catalogue](#) [Upload my data](#)

User requirements workshop | Portal design workshop | Data access and services

Clipc Data Visualisation and Download

Layers

- seawall mean_indicator (EMCOat Depth Average)
- Landuse
- Polypans
- Lines
- Points
- Water (WMS)
- Woods
- Open Street Map

Add layer

Select a WMS server

Or Specify WMS Server URL:

Select a layer

- seawall coastline (EMCOat Coastal)
- seawall contour (EMCOat Depth Subline)
- seawall dcm (EMCOat)
- seawall mean_indicator (EMCOat Depth Average)
- seawall mean_indicator (EMCOat Depth Average in 10m)
- seawall smooth_indicator (EMCOat Depth Smoothed)
- seawall smooth_indicator (EMCOat Depth Smoothed in 10m)
- seawall source_reference (EMCOat Source Reference)
- seawall slope (EMCOat Depth Standard Deviation)
- seawall velocity (North Sea Underwater Features (NSUCF))
- waterbodies (waterbodies)

Give a name if you want to combine the selection in one layer

Add layer

Climate Adaptation Atlas

Overstroming Wateroverlast Droogte IJfite

Overstroming

Gedimodellen voor landschapstypen

Zoek gemeente

voor een gemeenteteam in

Achtergrondkaart

- Luchtfoto
- Landschapstypen
- Topografie

Effect

- Maximale waterdiepte 0% tran...
- Diepte en snelheid 0% tran...

Gevoelige functies

- Tunnel's hoofdwegen 0% tran...
- Ziekenthuis 0% tran...
- Waterdiepte snelwegen secundaire dijk doorbraak 0% tran...
- Waterdiepte snelwegen primaire dijk doorbraak 0% tran...

The inline editor is disabled (locked)



- **Key outcomes:**
 - Guidance on processing, and what you are doing
 - Also for less experienced, or end user
 - Standardisation – to allow data sharing with other projects
 - Full freedom of use? Can lead to poor outcomes – some restrictions needed, e.g. what makes sense
 - User-to-user interactions as real added value



- User requirements document available in March
- More information about CLIPC existing and developing systems in Martin Juckes' presentation on Thursday

Thank you

