



Knowledge Exchange: 5 CCI Products for Interactions With Scientific Users And Policy Makers

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CCI Colocation Virtual Meeting

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Maximise

- awareness
- access
- use
- understanding
- of satellite data for climate research

with an **emphasis** on promoting the **CCI Programme**

User Types

User Type	Representative User	Hollmann & Kaiser, DWD	Fitzsimons, NCEO	Kockelkorn, Museon	Swinkels, Museon	Hayward, TPZUK	Brockmann, BC	Salama, ITC	Nam, GERICS	Ghent, ULeic.	Maheca, MPI	ESA: Rider, Oakley, Talevi, Pinto, Mecklenburg, Trofaier, Cipolini
1	CCI Data Producers	X					X			X		
2	Climate research & reanalysis community	X							X			
3	Earth system science community	X							X		X	
4	Climate service developers and providers	X				X	X		X			
5	Undergrad., postgraduate students and supervisors		X					X				
6	Secondary and primary school teachers		X									
7	General public			X	X							
8	ESA personnel											X

A. Strengthen the R&D profile of CCI

- A. Distinguish from C3S
- B. Supported by ECV scientists
- C. Well known by other climate scientists
- D. Known by general public

B. Develop KE products at „excellence“ level

- A. Contemporary appearance
- B. Fast, informative, intuitive
- C. Consistency across products

C. Keep KE product content up-to-date

- A. Provide latest Climate Change information
– not restricted to CCI
- B. First choice for recent, quality controlled climate change data

<u>ESA CCI</u>	<u>Copernicus C3S</u>
Research & Development	Consolidated science, long term consistent time series
=	
Next generation of operational products	

5 CCI Knowledge Exchange Products

5 CCI KE Products

Climate from Space

A web application for data visualisation, storytelling and public engagement

Educational Resources

Learning materials for educators, students and the interested public

Website

Present the activities of the ESA Climate Office with focus on the CCI programme

Open Data Portal

Repository and access point to ESA's Climate Change Initiative data

Cate Toolbox

Cloud-enabled computing environment to analyse, process and visualise climate data

Collection of high quality graphics and videos

- 82 ready-to-use high-resolution stills
- 33 broadcast-quality videos
- 31 map sequences suitable for real-time rendering
- 2 computer animations

CfS - A web application for data visualisation, storytelling and public engagement

- Contains 23 ECV datasets + 1 non-ECV dataset
- 10 stories in 5 different languages
- 3 300 unique visitors of CfS
- CfS used in 21 different events and communication activities during 2021 (ESA Climate Office staff, KE team)
- Permanent installation at Museon in NL

Website - Present the activities of the ESA Climate Office with focus on the CCI programme

- Continuous updates of news, demonstration material and from CCI projects (thanks to CCI ECV Projects!)
- New education material
- Translation into 4 languages
- > 10 000 visits
- ~ 2000 downloads of resources

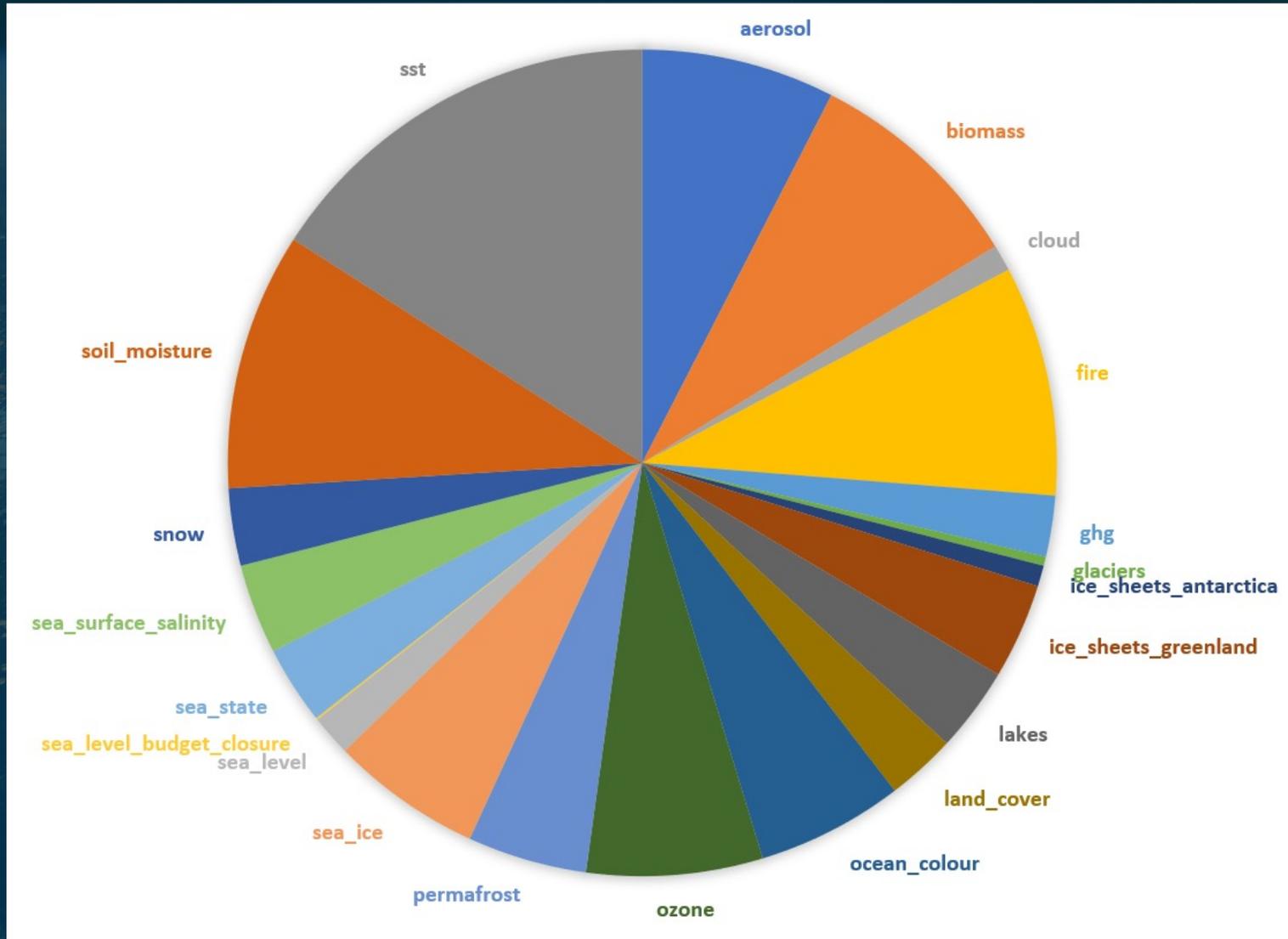
Open Data Portal ODP - Repository and access point to ESA's Climate Change Initiative data

- 381 datasets from 21 ECV projects
- 15 120 data downloads (31 940 activity days)
- C3S regular interaction and common data standards

Cate - Cloud-enabled computing environment to analyse, process and visualise climate data

- Cate WebUI and new Jupyter Notebook
- ~ 100 active users
- All ECV datasets, (partly) accessible from very fast object store

ODP „Activity Days“ during Q3/2021



1. Website
2. Educational Material
3. Open Data Portal ODP
4. Cate Toolbox
5. Climate from Space CfS
6. Collection of high quality graphics and videos

<https://ccike-visuals.brockmann-consult.de>

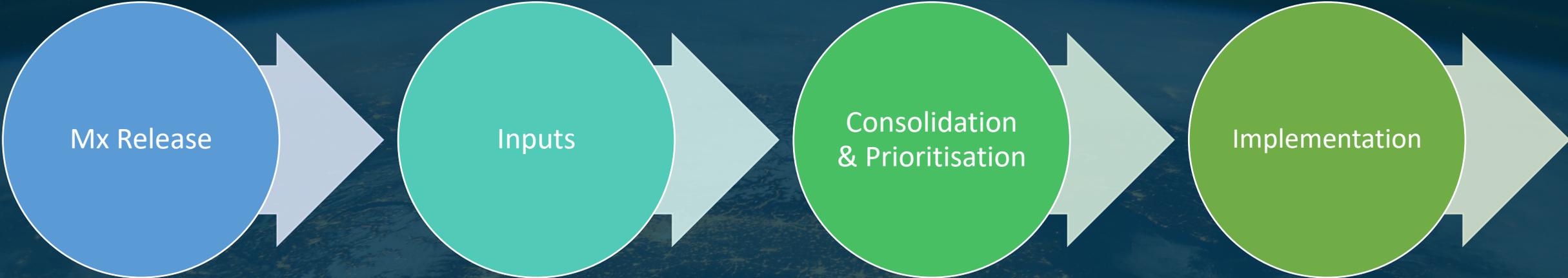
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Requirements and Update Process (3-monthly cycles)



- **Web**
- **CfS**
- **Edu**
- **Cate**
- **ODP**

- **Overarching requirements**
 - KE objectives
- **External**
 - User Survey
 - Representative users
 - **Other CCI projects (ECVs)**
 - Helpdesk tickets
- **Internal**
 - ESA requests (Product owners)
 - Teams' suggestions + internal requests

- **Merge & clean**
- **Prioritise**
 - based on agreed guidelines
- **Propose** to ESA Project Lead & TO
- **Decide** on features for next iteration (by ESA PL & TO and Prime/team)

- **Quarterly** deliveries to ESA as staging, followed by public releases
 - Any bugs encountered are fixed immediately
 - Maintenance is ongoing



Requirements and Update Process (3-monthly cycles)



Invitation to provide feedback – Helpdesk

☰ 🔍 📧 → THE EUROPEAN SPACE AGENCY

ESA climate office

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Helpdesk

Welcome to the CCI Helpdesk. We will aim to respond to your enquiry as quickly as possible. To help us achieve this, please ensure your request is as accurate and complete as possible.

Product *

Climate Office Website

Enquiry type *

Fault

Summary *

Welcome to the CCI Helpdesk. We will aim to respond to your enquiry as quickly as possible. To help us achieve this, please ensure your request is as accurate and complete as possible.

Product *

Climate Office Website

Climate Office Website
Education Resources
Climate from Space

Enquiry type *

Fault

Open Data Portal
CCI Toolbox (Cate)
ECV project/data
Other

Fault
Request
Feedback

Description *

Email *

Captcha *

Submit

Where do we go from here?

CCI KE has 1 more year to go

Continuation in CCI+ Phase 2

- 3-monthly requirements analysis and activity prioritisation
- More focus on communicating the KE products
- Taking into account the shift in working practice due to COVID (online and hybrid working)
- e.g. tutorials, Jupyter Notebooks

Some questions the KE team has to audience here:

Q1: Which of the products would you use for your research / activity and what would you do with it?

Q2: Which evolutions of KE products would you recommend?

Poll: Which of the KE Products do you consider most relevant for your work? ([slido.com](https://www.slido.com), #310 067)