

KNOWLEDGE EXCHANGE

CLIMATE CHANGE INITIATIVE MID-TERM REVIEW

The objective for Knowledge Exchange activities within the CCI is to **maximise**

- **awareness**,
- **access**,
- **use** and
- **understanding**

of satellite data for climate research with an emphasis on **promoting** the CCI Programme.

Unified approach – **strengthening the CCI brand**

User demand driven – increase **awareness**

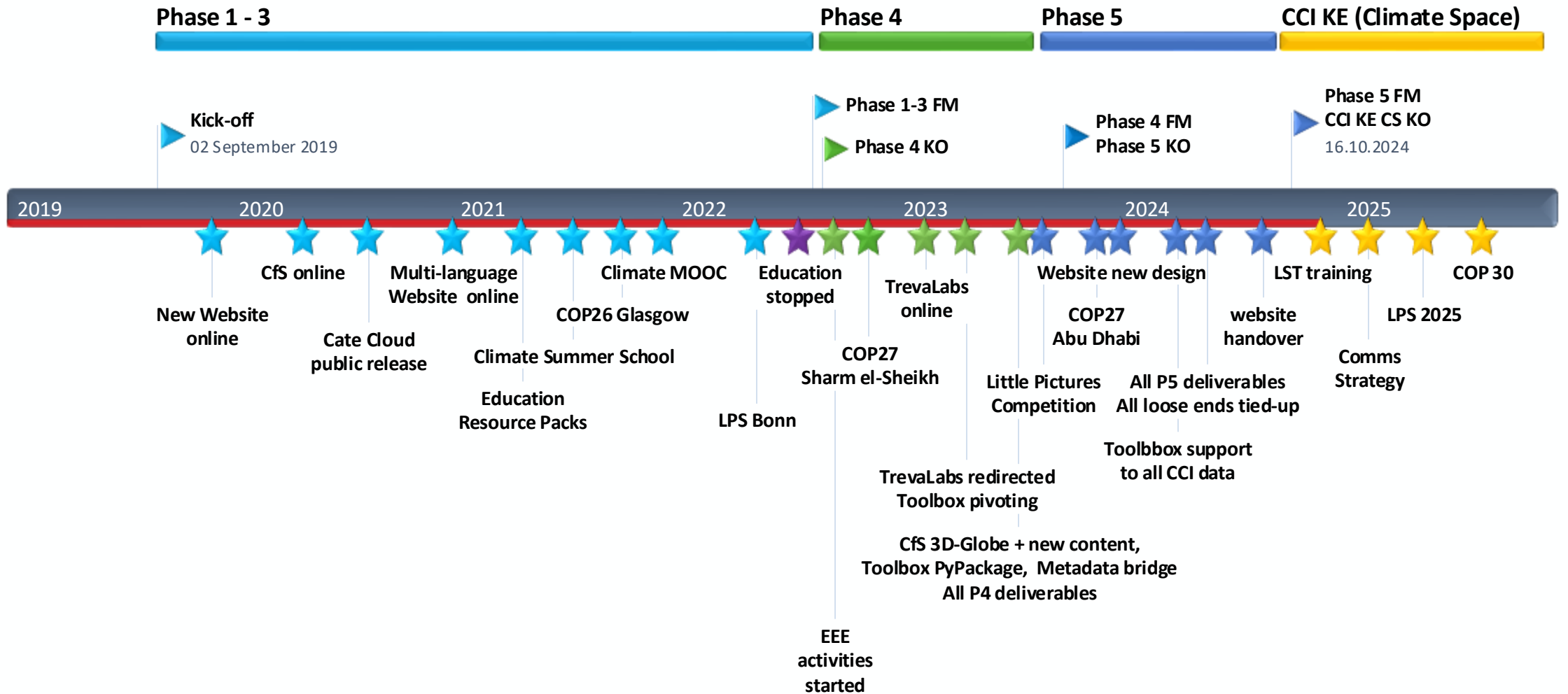
Consistent design and efficient interfaces – ease **access**

Tailored content – make climate change **understandable**

Contemporary technology – improve the **usage**

Knowledgeable and agile communication – support **promotion**



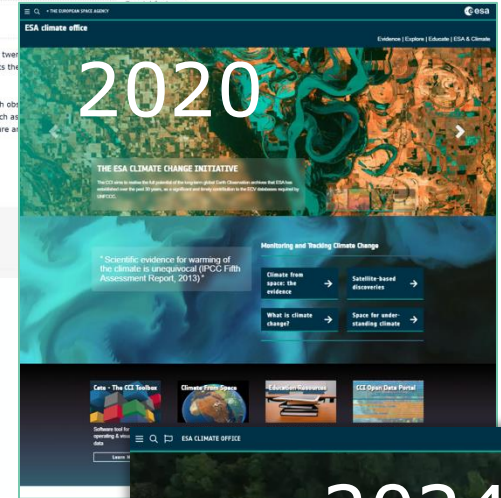
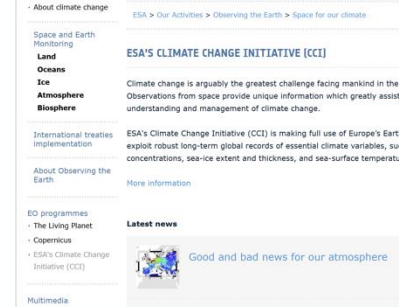


Highlights and Achievements



ESA Climate Office Website, available in 5 languages.

~62000 visitors, ~360 support requests processed

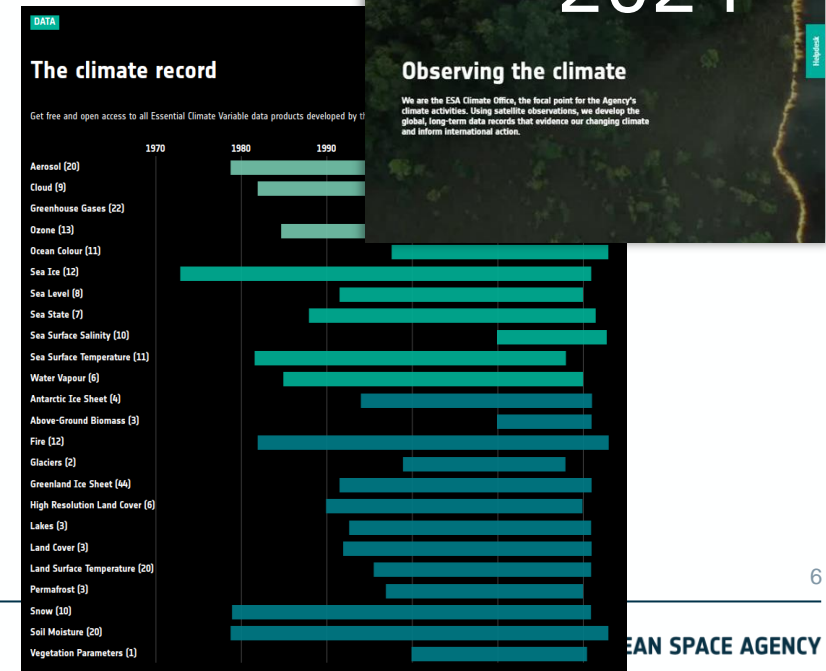


Climate from Space web app, available in 5 languages.

~37000 visitors, 26 ECV datasets, 23 Stories, 2 CfS demo videos

CCI Toolbox (SaaS and Python Package), Jupyter Hub.

~2900 Toolbox downloads, ~370 Cate users, 10 demo videos



CCI Open Data Portal, dashboard and metadata bridge service.

~4700 activity days on average per quarter on ODP



Showcase Climate from Space



23 stories of 3 types:

12 Earth system stories linking multiple ECVs

5 image stories from phi-Experience touch-table

6 animation stories

Hyperlinks between stories, links to CCI data

5 languages (EN, DE, FR, ES, NL)

Continuously keeping data and stories up to date:

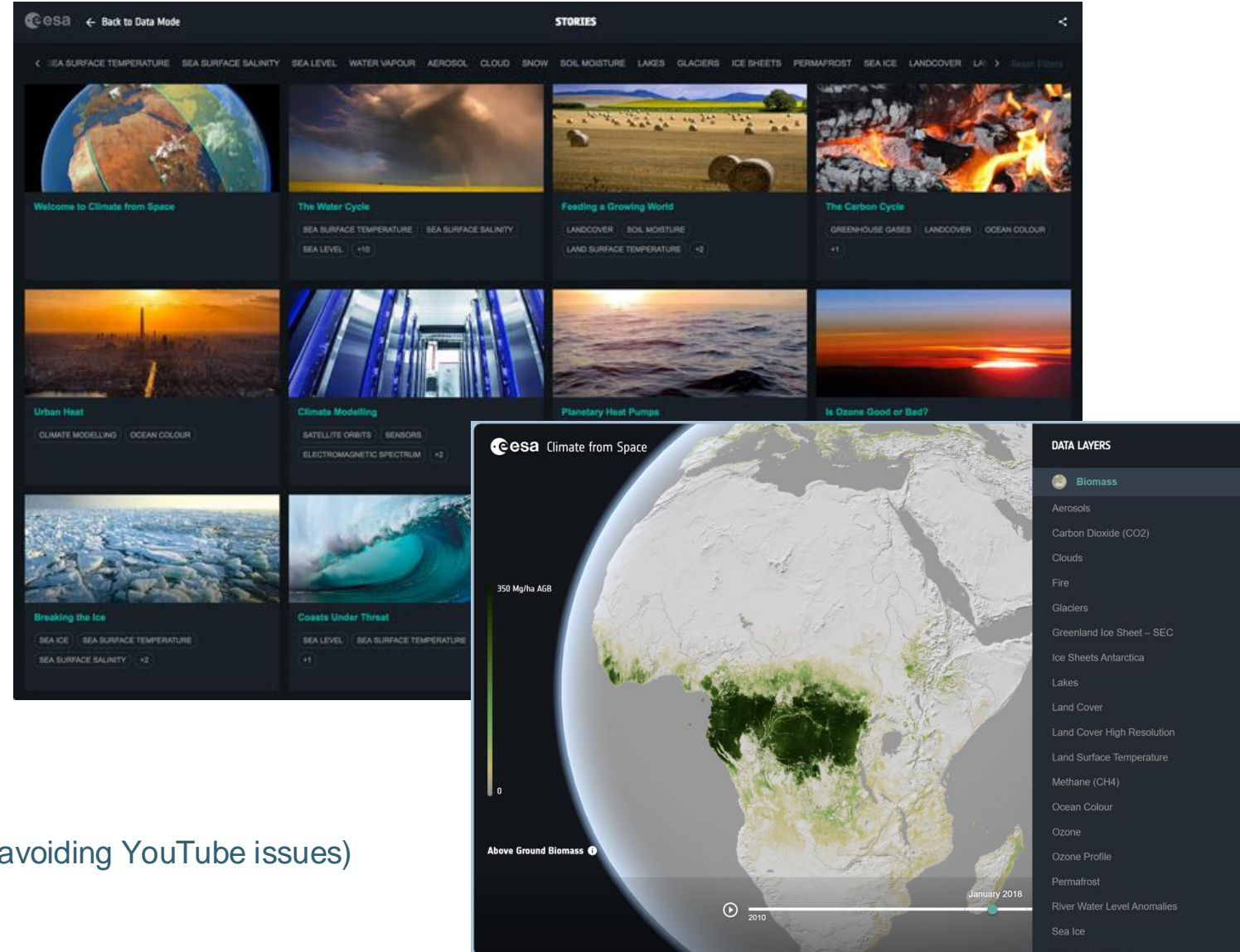
11 stories updated with 31 new images

17,282 words, 216 illustrations

(data globes, photos, satellite images, diagrams, graphs, animations, interview videos)

20 improved data descriptions (more consistent detail, language, length)

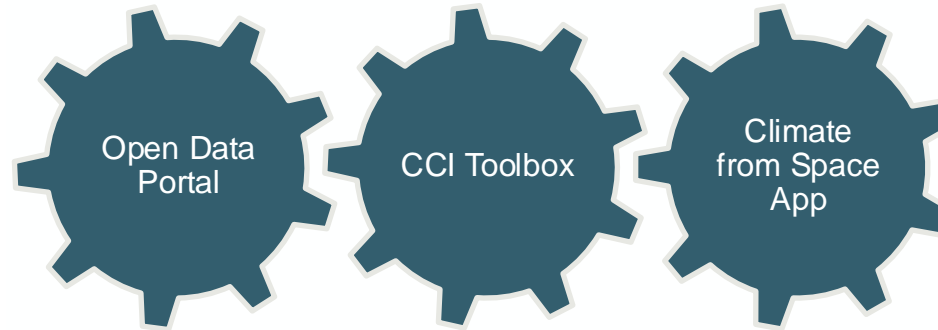
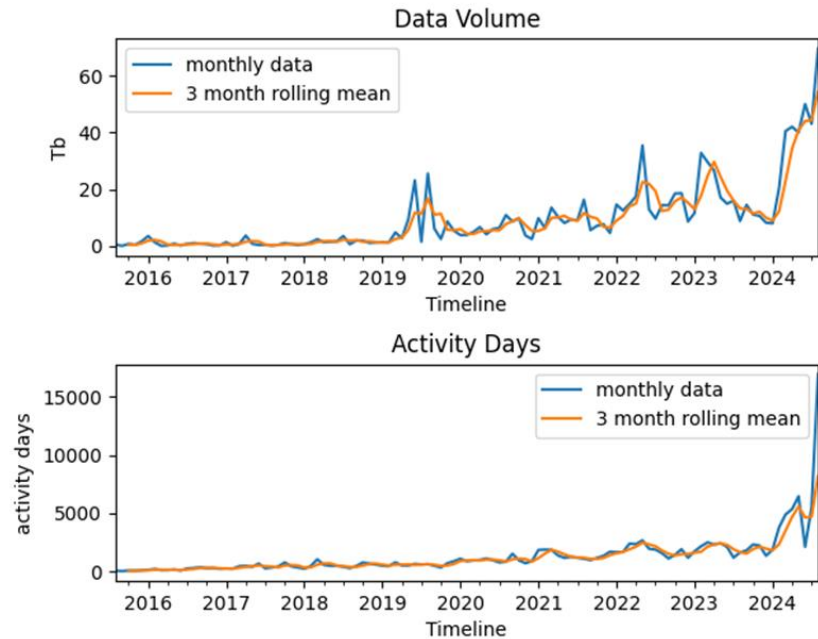
All videos subtitled and formatted for internal video player (avoiding YouTube issues)



KE Products linking Data, Tools and Public



CCI Data raising public awareness ↔ public awareness raising usage of CCI Data

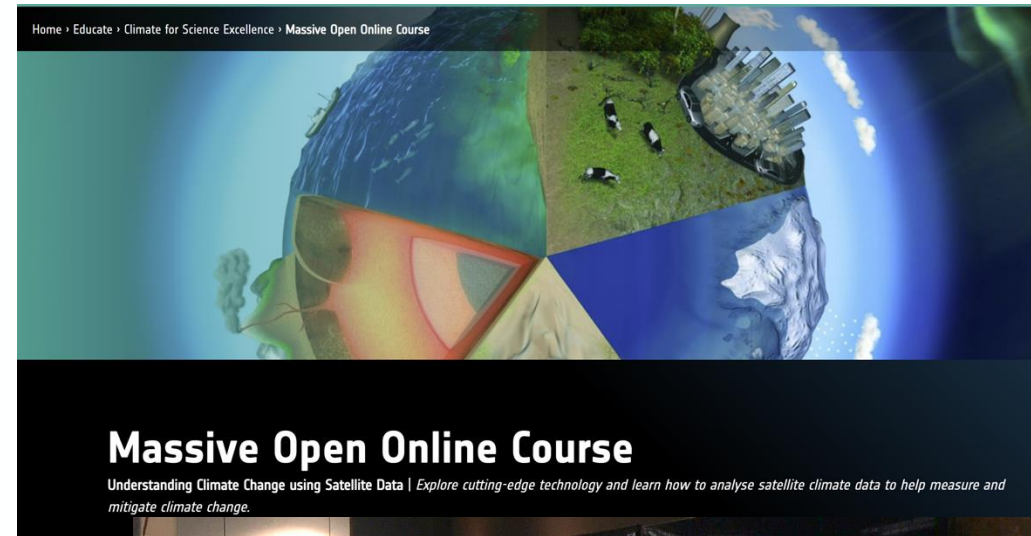


Hamburger Abendblatt



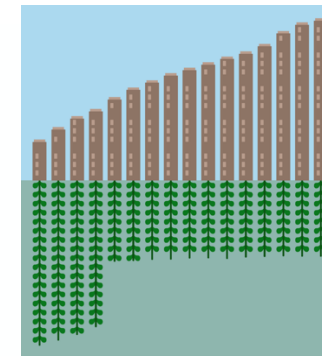
Showcases Education and Outreach

- 10 educational packs, available in 5 languages, and 3 climate games.
- A Summer School and a Massive Open Online Course
- 120 graphics, 37 maps, 42 videos and 9 animations; in multiple languages
- State-of-the-art and concept notes (science outreach, climate visualization)
- Study on ECV Processing Complementarity.
- ~1000 user requirements processed.



— Winning Little Picture showcased at COP28

A picture paints a thousand words

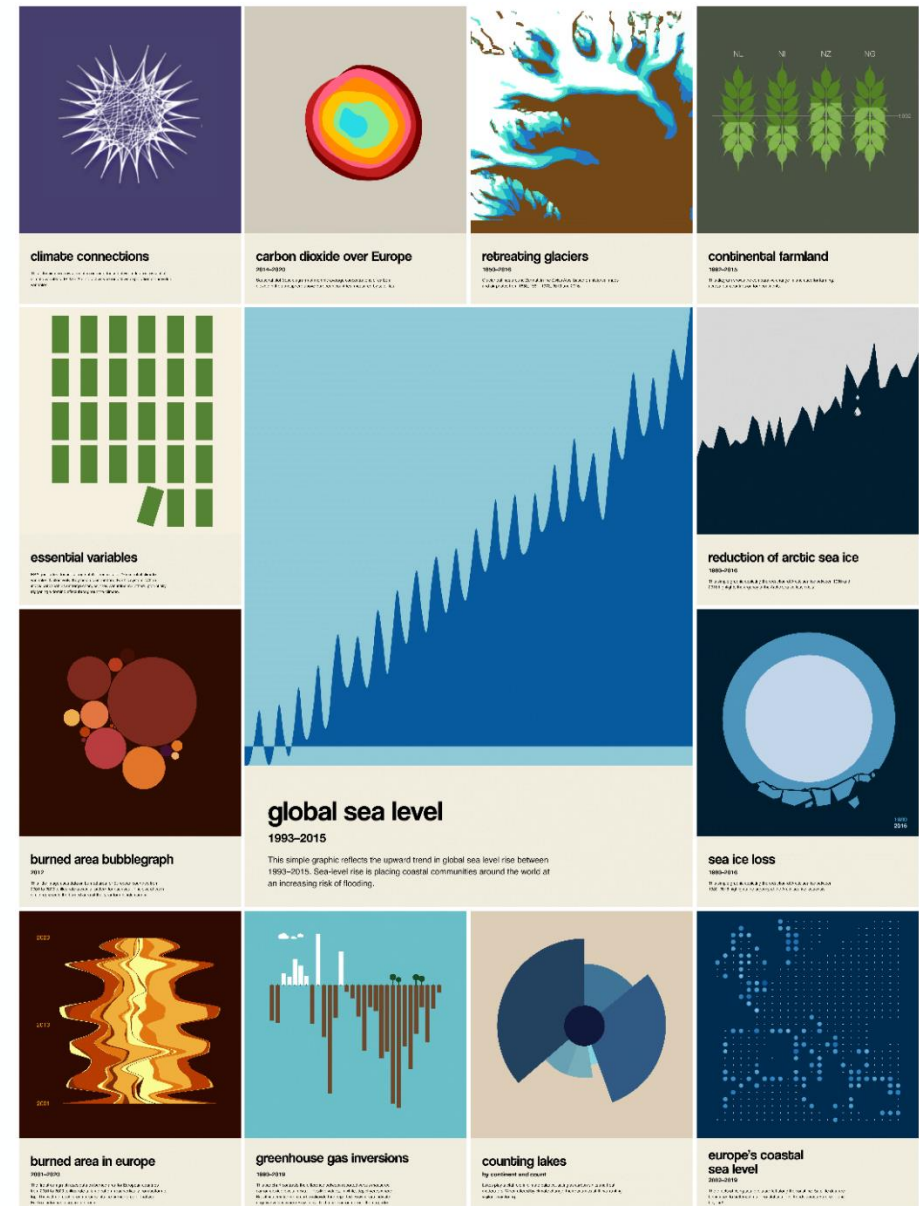
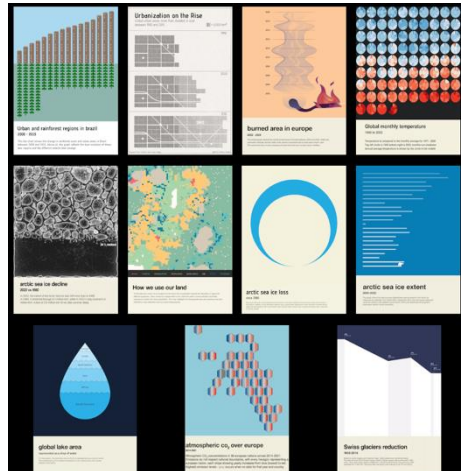


Little Pictures

Aim: reach a widespread European audience by creating a series of 19 Little Pictures as visual interpretations of publicly available CCI climate data.

- These Little Pictures were data-driven, design-first, self-contained, rapidly built and rapidly deployable
- International competition in Sept/October 2023 hosted by ESA Climate Office, and supported by CCI KE, led to several community-created Little Pictures

Little Pictures produced by the external community during the autumn 2023 competition



Selection of Little Pictures produced in CCI KE

2019 – 2020: new products, new design

Impact: fresh and new face of the Climate Office to the outside world; positive image; strengthening the CCI brand

2021 – 2022 routine operations and evolution of ODP, CfS, and Toolbox, new Educational Resource, new graphics & animations

Impact: continuously attracting attention in the climate community, within ESA and the public; raising awareness with new users and raising ESA Climate Office and CCI programme's profile

2023 – 2024 new website UX redesign and launch, ODP metadata bridge, new content and new storytelling, new cloud formats Kerchunk or Zarr for ODP and toolbox, Little Pictures

Impact: innovation, impactful design and simple messages on climate change used to inform and increase the public's awareness on climate topics

2024 – 2027 Knowledge Exchange project enhanced – strong focus on communication, sound scientific basis and KE products, new training concept, innovation lab, .. expanded team

Expected impact: empower individuals and communities by providing actionable climate science information, practical tools, and informative resources



Website



Toolbox



Climate from Space



Open Data Portal

Knowledge Exchange Climate Change Initiative



KNOWLEDGE EXCHANGE

Climate Change Initiative

- Communication
- Storytelling
- Training
- Open Data Portal
- Toolbox
- Climate Science Outreach

