

ISSUES TO BE CONSIDERED – WGGI 'S WAY AHEAD

Stephan Arnold [Statistisches Bundesamt]

Fifth meeting of IAEG SDG Working Group on Geospatial Information

Content

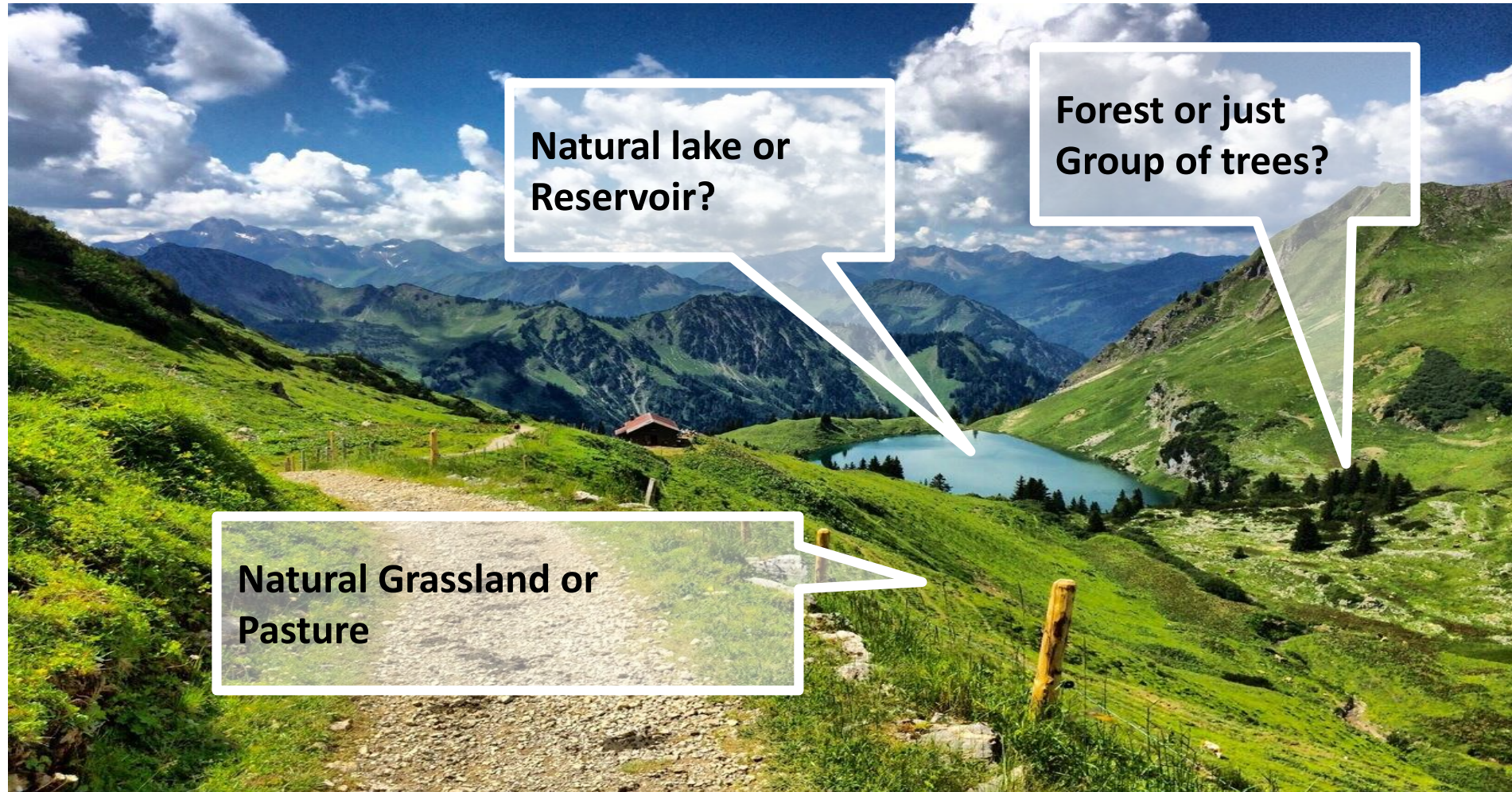
Dilemma of classification

Citizen Generated Data, Ground Truth

Issues to be further developed

Outlook

Complex Landscape Situations



Complex Landscape Situations



Complex Landscape Situations



Complex Landscape Situations

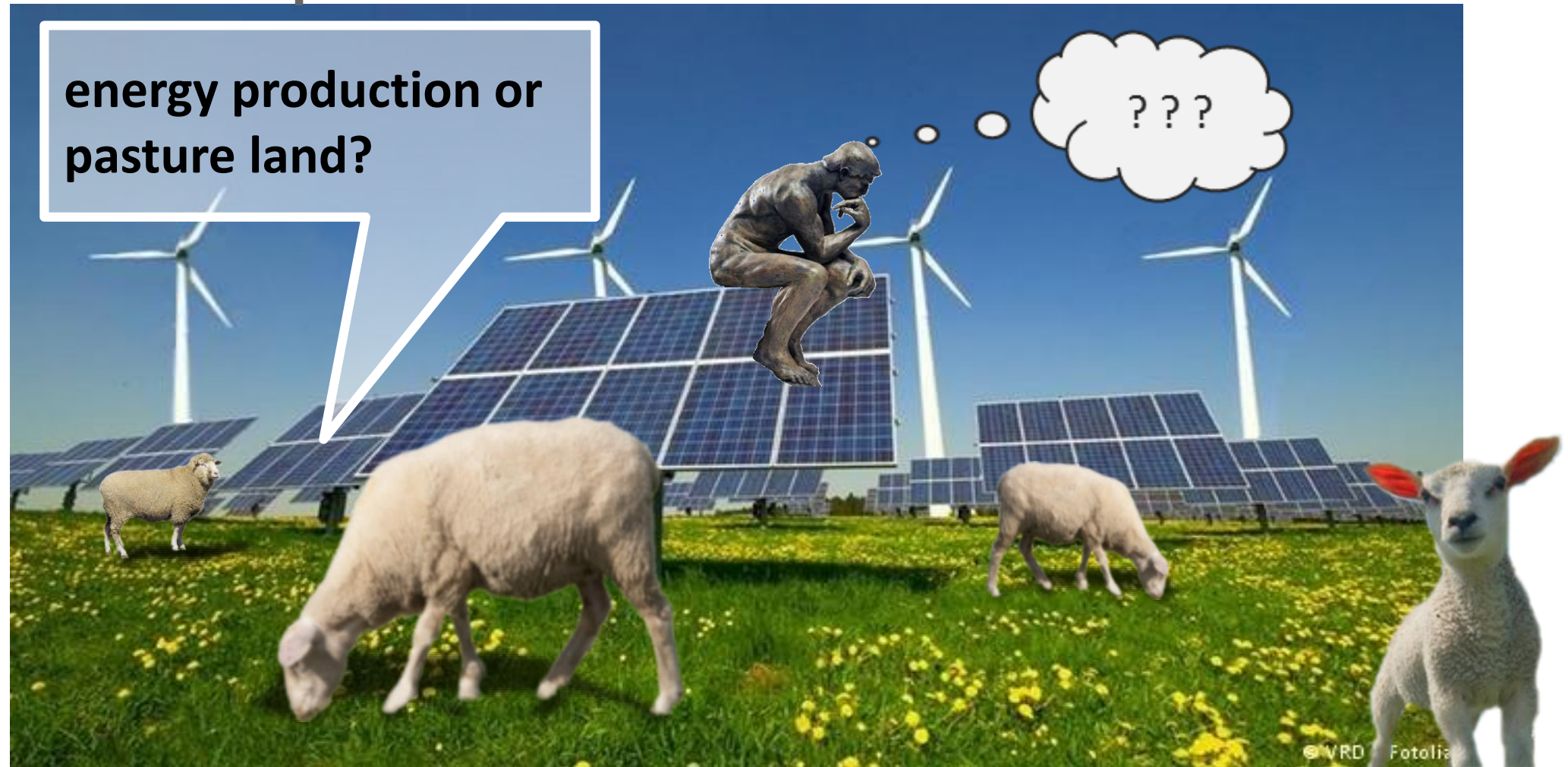


**Broadleaved forest or
Wetland type**

Complex Landscape Situations



Complex Landscape Situations

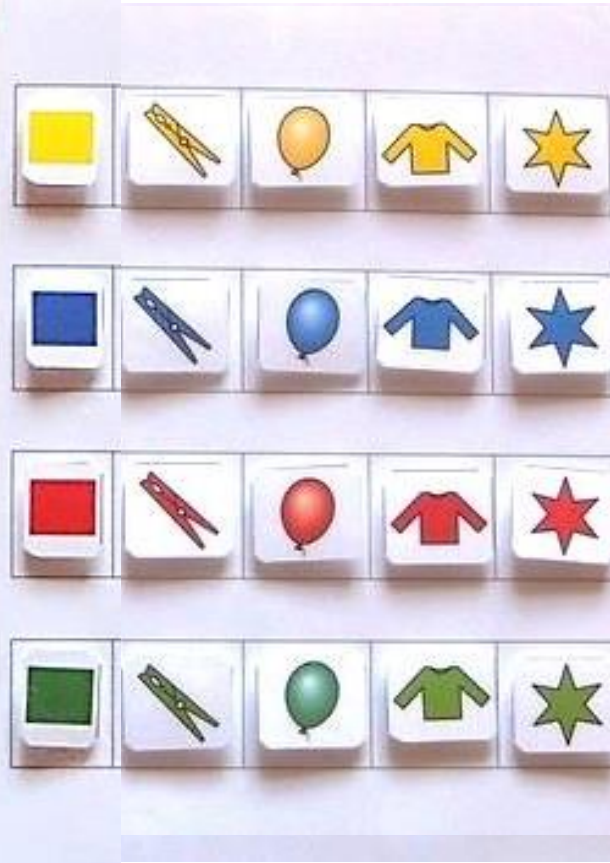


Dilemma of classification

Bringing objects into order ...



by colour [LC]:



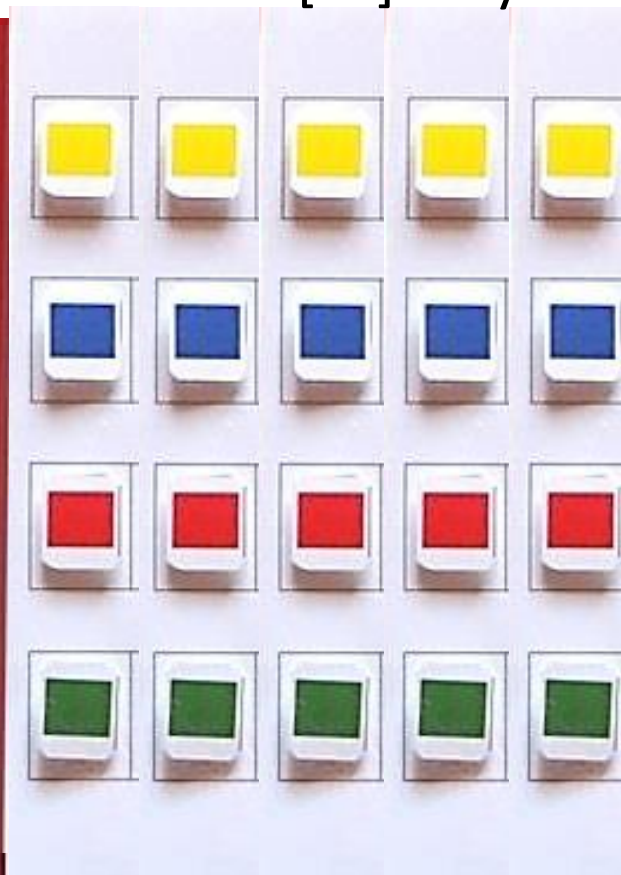
by shape [LU]:



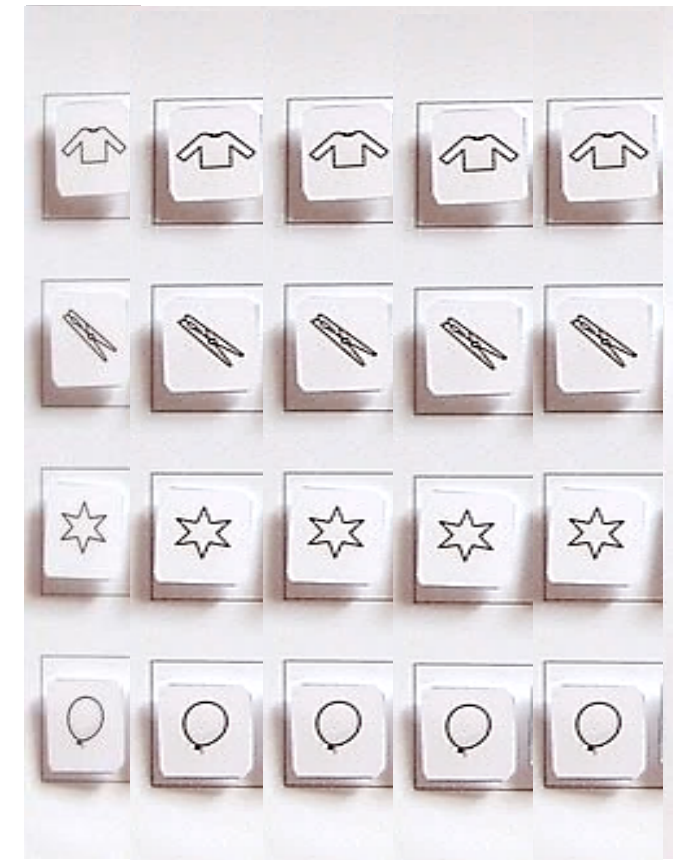
Dilemma of classification

Remaining information after classifying...

on colour [LC] only!



on shape [LU] only!

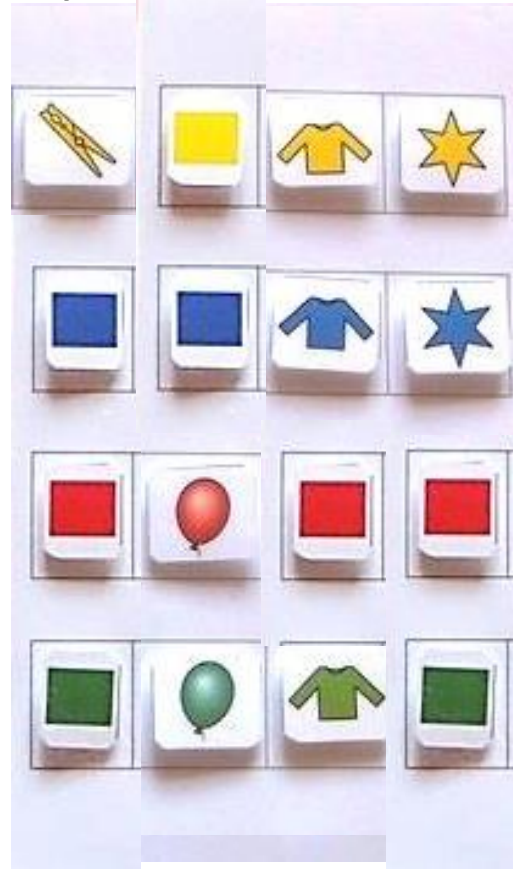


Dilemma of classification

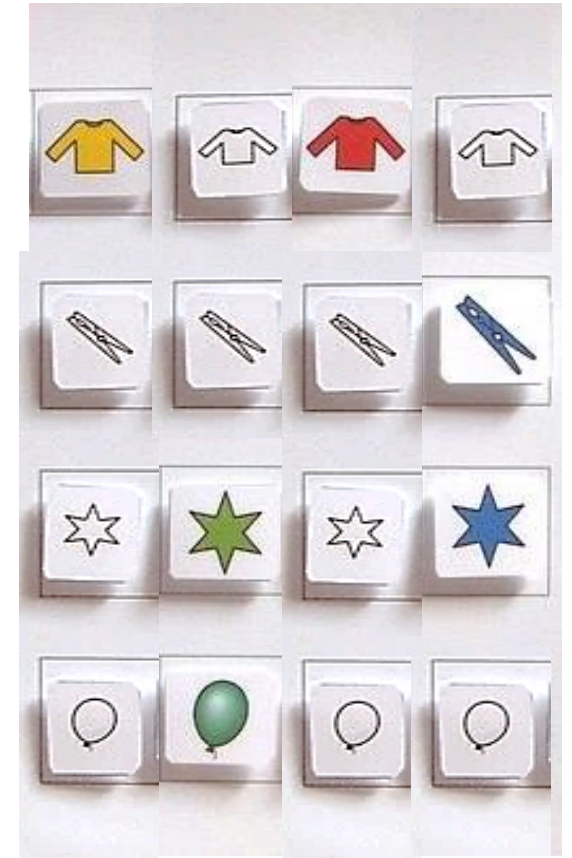
Mix of object information ...



after classification system A

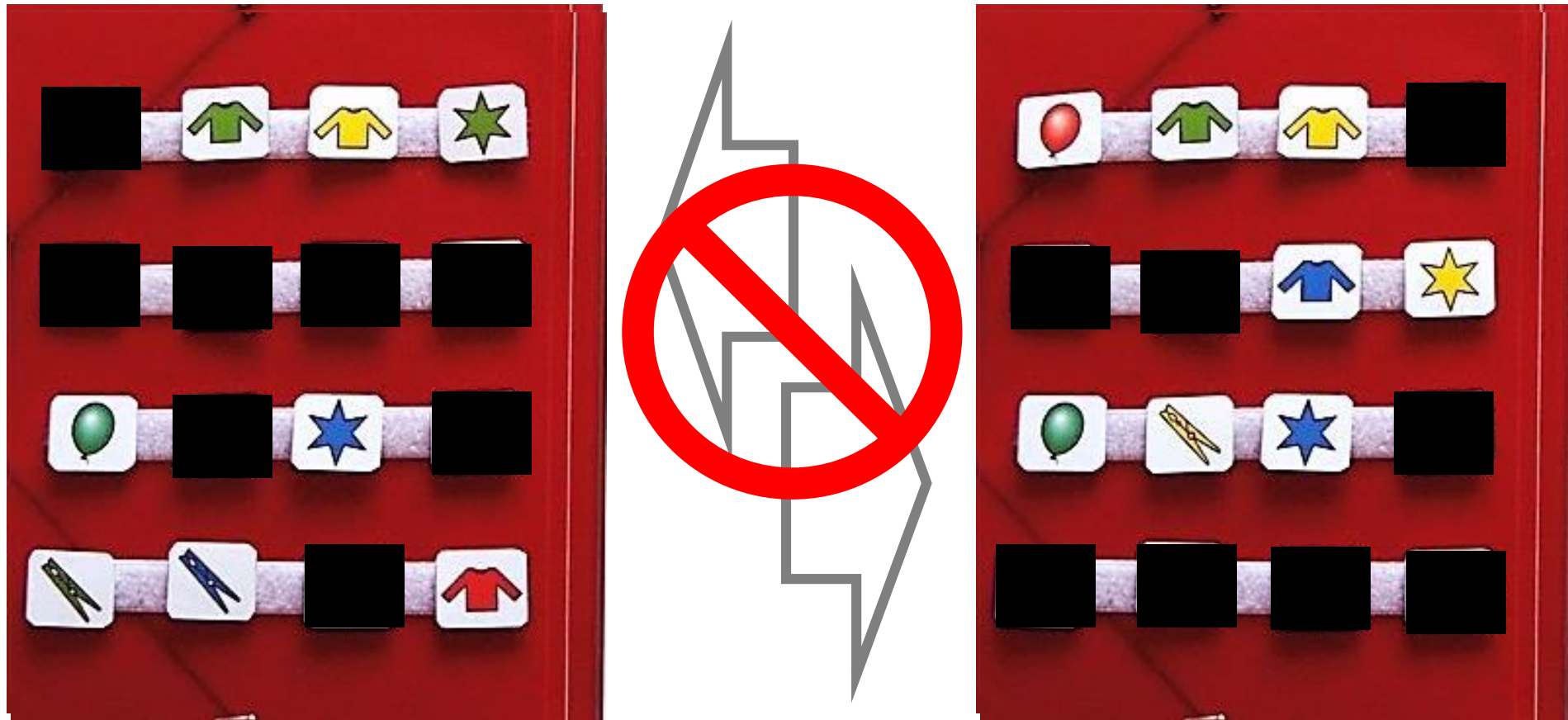


after another classification system B



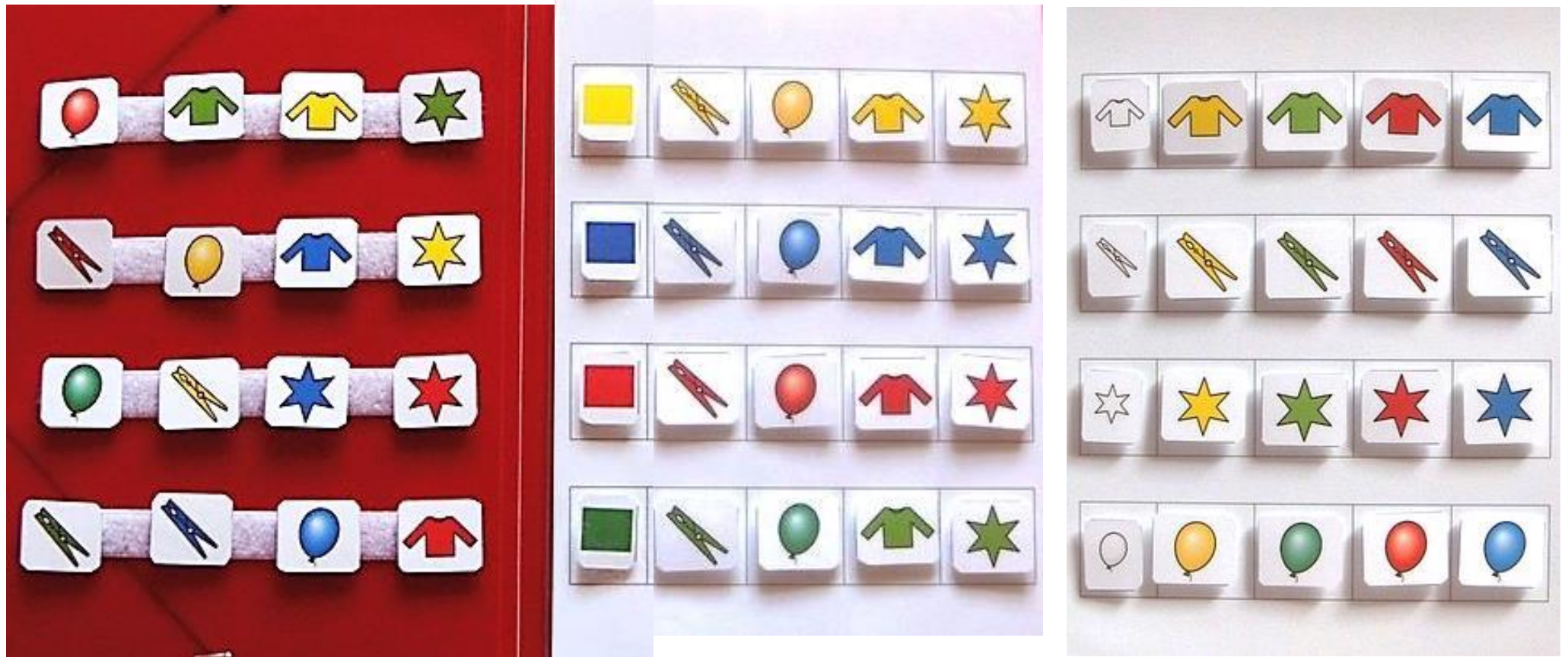
Dilemma of classification

Comparison or transformation of information not possible between incomplete and mixed nomenclatures

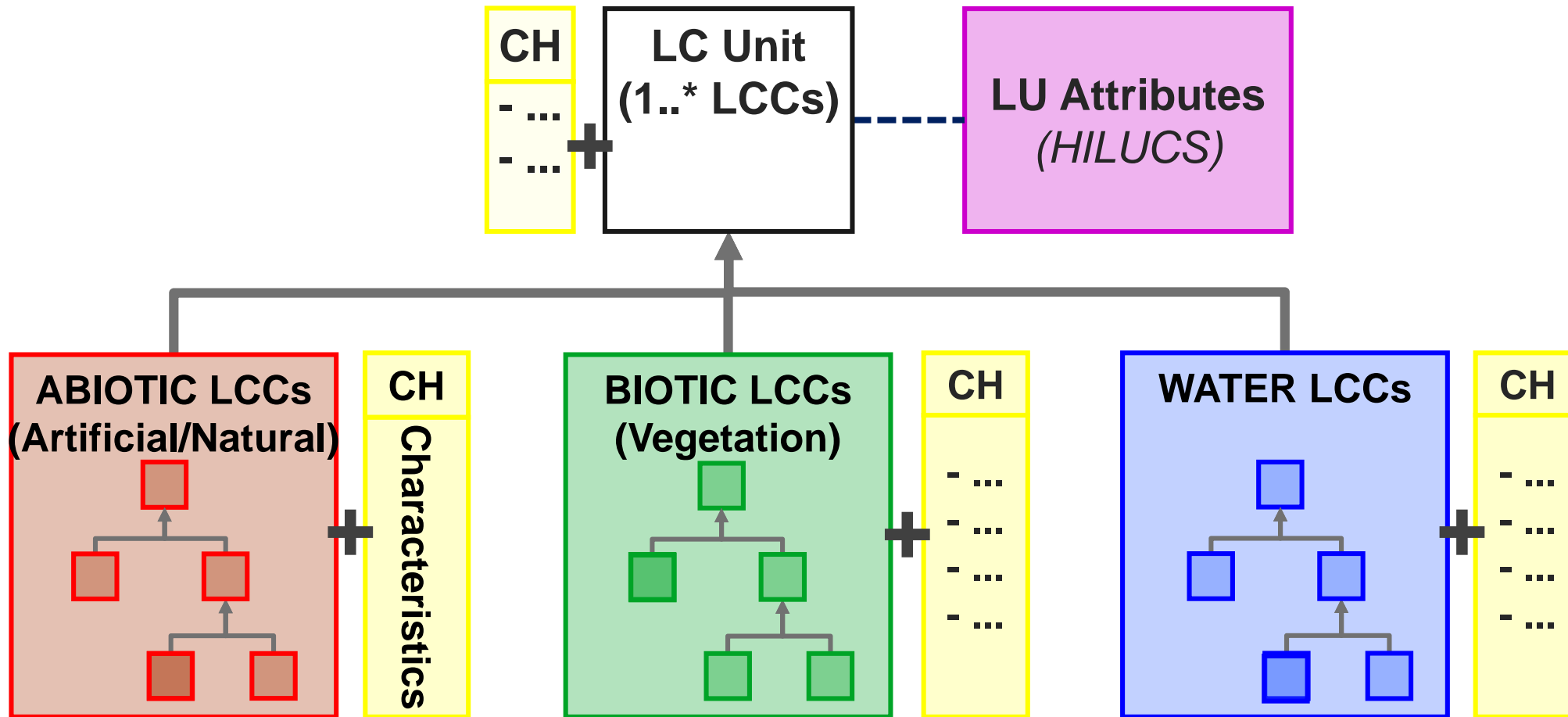


Dilemma of classification

Descriptive characterization needed for complete of information
on both colour [LC] and shape [LU]



Object-oriented EAGLE data model for LC/LU



Citizen Generated Data

- » Adventurescientists: Global Microplastics Initiative
- » EEA: Marine Litter Watch

Citizen Generating Data Platform: Geo-Wiki

ENGAGING CITIZENS IN ENVIRONMENTAL MONITORING



- » Home
- » News
- » Publications
- » Downloads
- » Sources

Games

- » Picture Pile
- » Picture Paint
- » FAQ

Get involved now!

Participate in these ongoing projects and join the citizen science movement to help us address global land cover issues



Picture Pile

Sort pictures and win great prizes! You can help us tackle global issues like deforestation.



Picture Paint

Paint pictures and win great prizes! You can help us tackle global issues like deforestation.



FotoQuest Go

Join FotoQuest Go and explore the outdoors! Help us monitor changes in land use and land cover.



Geo-Wiki pictures

Capture different landscapes using your smartphone and share with others through Geo-Wiki.

Login

Email

Password

Remember me next time?

Log in

[I've lost my password](#)
[Register here!](#)

Try Geo-Wiki

Try as guest

Administration

» [Smartphone Legends](#)

Tweets by @Geo_Wiki

IIASA Geo-Wiki Retweeted

[Picture Pile](#)
[@picturepile](#)

Citizen Generated Data: Global Microplastics Initiative



Source: www.adventurescientists.org

Citizen Generated Data: Global Microplastics Initiative



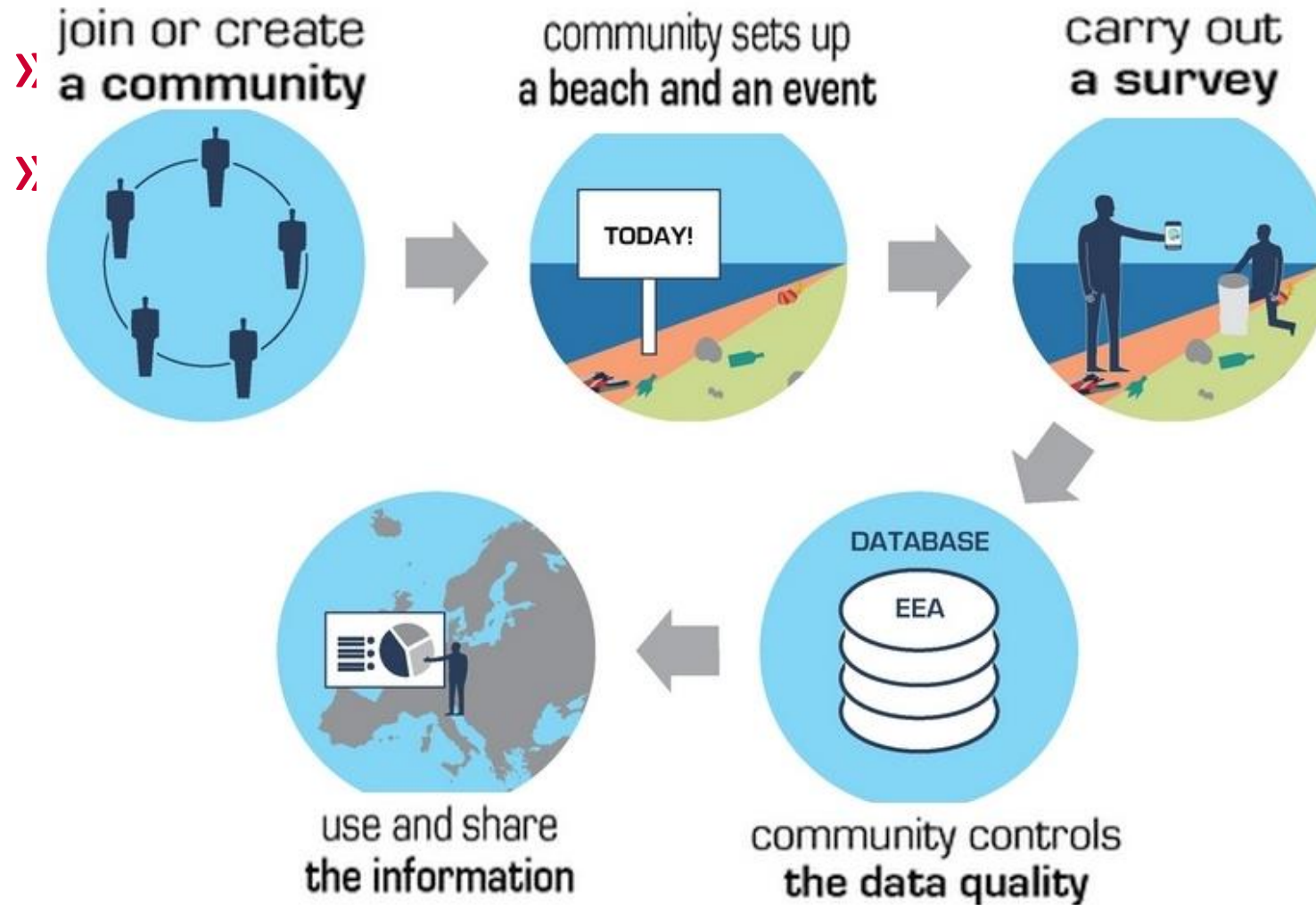
Source: www.adventurescientists.org

Citizen Generated Data: EEA Marine Litter Watch

The screenshot shows the EEA website interface. At the top left is the EEA logo and name. To the right is a search bar and an 'A-Z Glossary' link. Below this is a navigation bar with links for 'Topics', 'Countries', 'Data and maps', 'Indicators', 'Publications', 'Media', and 'About us'. A secondary navigation bar shows 'News' and a breadcrumb 'New mobile phone app will ...'. The main article title is 'New mobile phone app will help track marine litter'. Below the title, it says 'News — Published 03 Mar 2014 — Last modified 21 Jun 2016 — 1 min read'. There is a PDF icon and the text 'PDF'. Below that, 'Topics: Biodiversity — Ecosystems Resource efficiency and waste'. The article text reads: 'People will soon be able to report the litter they find on the beach, thanks to a new mobile phone app developed by the European Environment Agency (EEA)'. Below the text is a photograph of various pieces of marine litter on a beach. To the right of the article is a large graphic with two teal cylinders of different heights. Below the cylinders is a green bar with the text 'Nationally designated areas (CDDA)'. At the bottom of the graphic are several small icons and navigation arrows.

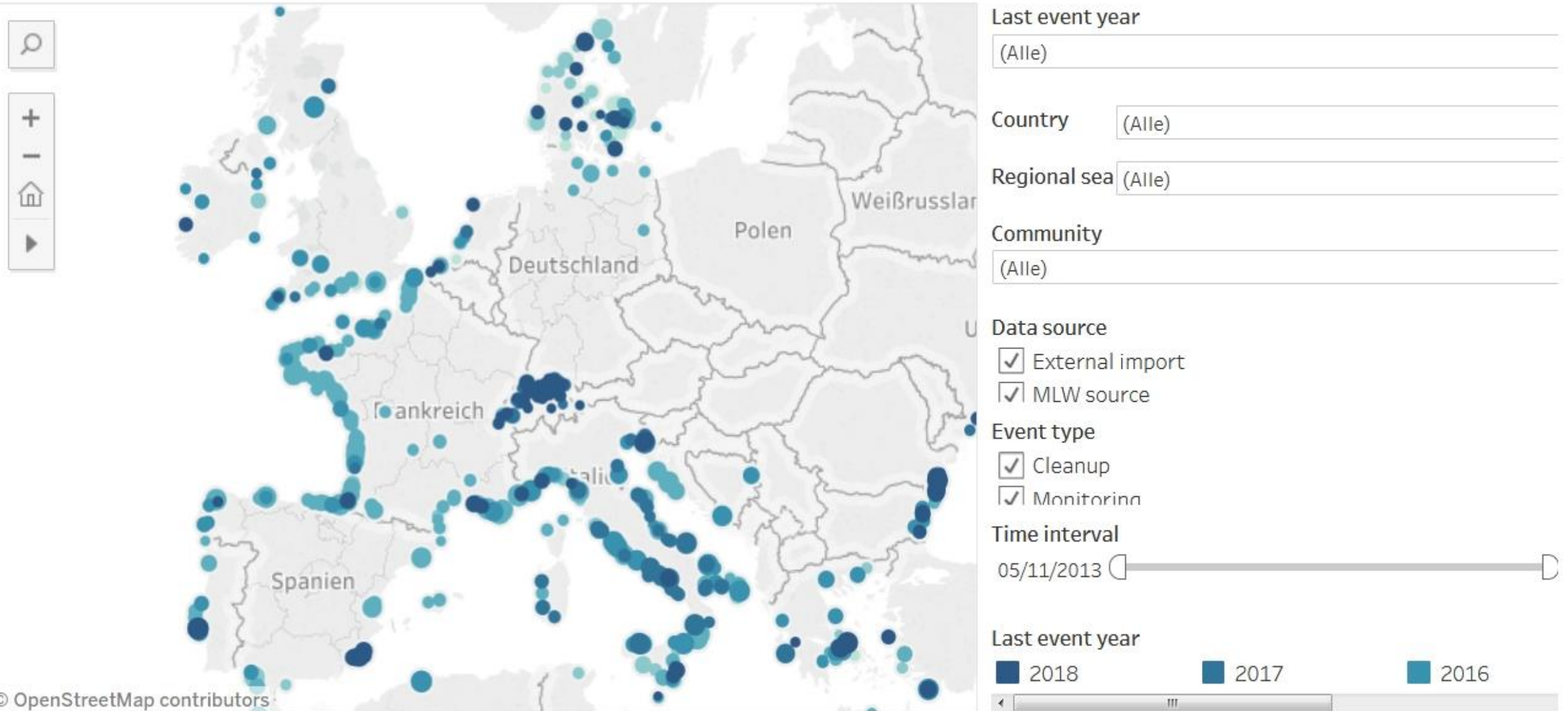
Source: EEA, <https://www.eea.europa.eu/highlights/new-mobile-phone-app-will>

Citizen Generated Data: EEA Marine Litter Watch



Source: EEA, <https://www.eea.europa.eu/highlights/new-mobile-phone-app-will>

Citizen Generated Data: EEA Marine Litter Watch



Issues to be further developed

- » Communication:
 - » Enhance knowledge about WGGI as think tank and initiative to collect good practises
 - » Vertical communication underneath overarching organisations (e.g. GEO) top-down/bottom-up to spread knowledge about ongoing project relevant for SDG monitoring
- » Capacity building: Linkage to expert event calendars
- » Tools to be used for indicator measurement: open source versus proprietary software

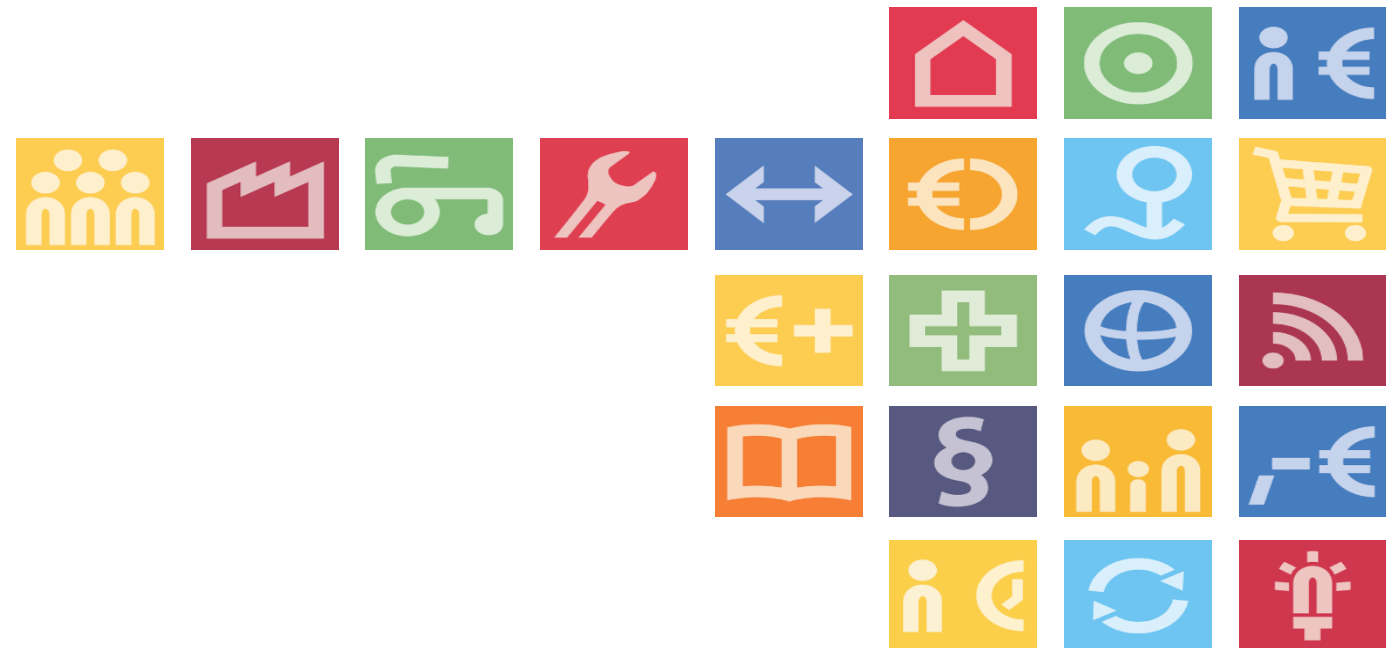
Issues to be further developed

- » Digitalization of data:
 - » Only digital data can be processed as geospatial data
- » Geocoding of locations:
 - » Essential issue of creating geocoded addresses within countries (out of WGGI scope?)

Summary and Outlook

- » Usage of harmonized definitions of themes (LC/LU) for comparable data
- » Reach out for Citizen Science Community

Thank you!



Stephan Arnold

Telefon: 0228 / 99 643 - 8612

Stephan.Arnold@destatis.de

www.destatis.de