

Linked Open Data in Agriculture Workshop 27th/28th of September in Berlin

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Bundesanstalt für Landwirtschaft und Ernährung

History

- \rightarrow G8 Summit 2012: New Alliance for Food Security and Nutrition
 - \rightarrow Open data
 - \rightarrow Global Platforms
- \rightarrow MACS 2012, Mexico:
 - → Access to scholarly publications, germplasm collections, genomic data...
- → National workshop on linked open data in agriculture 2013 (FAO, KTBL, DFKI)
- → GODAN Summit 2016
- \rightarrow MACS 2016, China:
 - \rightarrow Foster open data
 - \rightarrow Agricultural Technology Sharing

Linked Open Data



- 2-day, 2-track conference:
- → Policy implementation and strategy (discussing "open"-philosophy and "data"-content
- → Technologies and applications (discussing "linked"-technology and "data"-content Seite 3

Goals

- → Capture current State-of-the-Art in Linked Open Data
- \rightarrow Determine data demand and supply
- \rightarrow Exchange failure and success stories
- → Discuss on applications and usage (potential and realized)
- → Develop options for further actions (political and technical)



Topics addressed

- \rightarrow Research data sharing
- \rightarrow Availability and security
- \rightarrow Data models
- \rightarrow Open geodata
- \rightarrow Visualisation, navigation and search
- \rightarrow Vocabularies, classifications and thesauri
- \rightarrow Earth observation and remote sensing
- \rightarrow Applications in livestock farming
- \rightarrow Supply chain and traceability
- \rightarrow Monitoring and documentation
- \rightarrow ATS platform

Further Information

 \rightarrow Announcement and Call:

https://www.ktbl.de/fileadmin/user_upload/Allgemeines/Download/LOD/LODA_2017.pdf

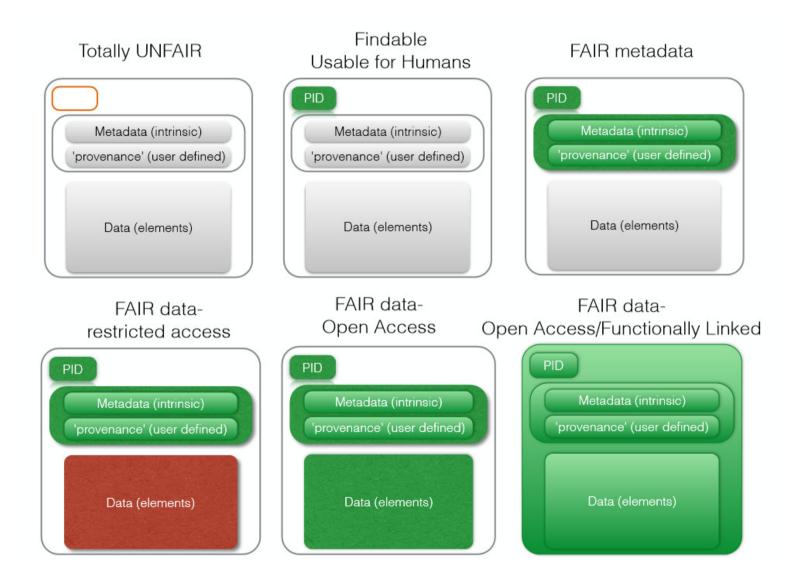
 \rightarrow Workshop presentations:

https://www.ktbl.de/inhalte/themen/ueber-uns/projekte/macs-g20-loda/lectures/



FAIR principles

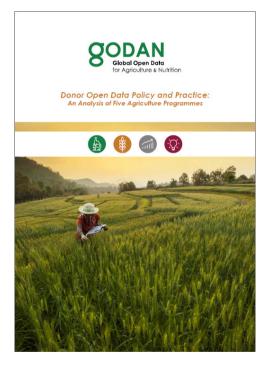
- →Findable
 →Accessible
 →Interoperable
 →Reusable
- = FAIR



Final plenary

- →Reuse what's there, look for synergies
 →Requires healing the "not-invented-here" syndrome
 →Governments should support open data
 →GODAN as a vehicle for networking and empowerment
 →Enduser perspective as a principle
 →Strengthen the process of collaboration
 →No heavy, administrative frameworks, lightweight
 - →No heavy, administrative frameworks, lightweig collaboration
 - \rightarrow Enforce ongoing processes

Joint Donor Statement







- Participate in global funder dialogue
- Promote good open data practice among those receiving funding
- Efficiently and consistently engage with partners
- Promote appropriate guidelines and tools
- Document and track use of open data
- Responsibly use data

Actions within the network

- →Microclusters of stakeholders that work on single things that have an impact:
 - \rightarrow Data providers
 - \rightarrow Domain experts

 $\rightarrow \dots$

 \rightarrow Followup workshop:

- \rightarrow Let people state shortly what they're good at
- \rightarrow Start forming microcluster
- →Think big, start small: a little bit of metadata often helps already!

Conclusions

- → Innovations and applications based on data provided according to FAIR principles start gaining ground
- → Follow-up actions on Linked Open Data should focus on collaboration and reuse

How?

- → Endorse a collaborative climate among organizations instead of competition
- → Funding agencies and authorities: support participation in international initiatives

MACS

- →Confirm the opinion that access to data is of importance for agricultural innovation
- →Endorse FAIR principles
- →Support developing definitions of data rights and responsibilities
- →Encourage catalyzing work done by organisations like GODAN, RDA etc.