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Towards sustainable Open Data ECOsystems

ODECO's overall objective

To train a new generation of creative and innovative early-stage open data researchers, able to face current and future challenges, in the establishment of sustainable open data ecosystems supporting the EU ambitions to become a worldwide leading information economy.

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Open data and open data ecosystems

Open data

Data without any restrictions in the (re-)use and provided free of charge

Open data ecosystem

"a cyclical, sustainable, demand-driven environment oriented around agents that are mutually interdependent in the creation and delivery of value from open data"

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4

UNIVERSITY OF THE AEGEAN

AD NYE VEJE — AALBORG UNIVERSITET

TUDelft

Universidad Zaragoza
1542

UNICAM
Università di Camerino
1336

KU LEUVEN

Université Paris Nanterre

cnrs

HUFFPOST

BOSA — Federale overheidsdienst Beleid en Ondersteuning / Service public fédéral Stratégie et Appui

Derilinx

GRUPPO Maggioli

Doctrine.fr

OPEN STATE FOUNDATION

CITY OF COPENHAGEN

City of Rotterdam

CoC Playful Minds

BE OPEN KNOWLEDGE BELGIUM

SWECO

esri

Spatineo

GOBIERNO DE ESPAÑA — MINISTERIO DE TRANSPORTES, MOVILIDAD Y AGENDA URBANA — INSTITUTO GEOGRÁFICO NACIONAL

DIGITAAL VLAANDEREN — Vlaamse overheid

7eData

GOVLAB

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Challenges

1. lack of skilled people to use open data.
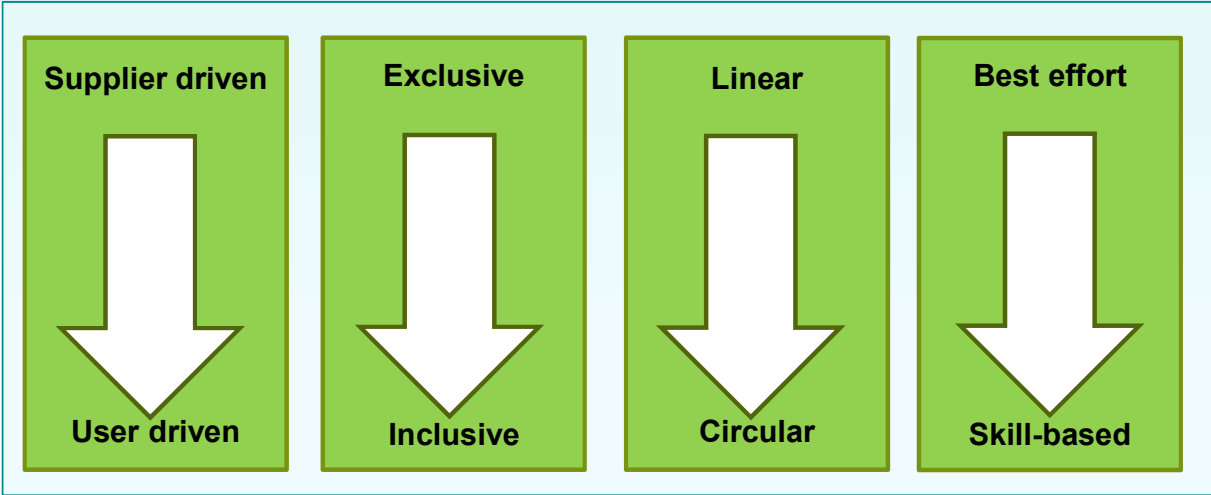2. current open data ecosystems lag behind in value creation.
3. existing open data ecosystems are neither user-driven nor balance demand-supply.
4. existing open data ecosystems are linear.
5. current open data ecosystems are exclusive.

Current situation

Supplier driven	Exclusive	Linear	Best effort

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Supplier driven	Exclusive	Linear	Best effort
↓	↓	↓	↓
User driven	Inclusive	Circular	Skill-based

Envisioned situation

VALUE creation & SUSTAIN-ABILITY of the ecosys-tem
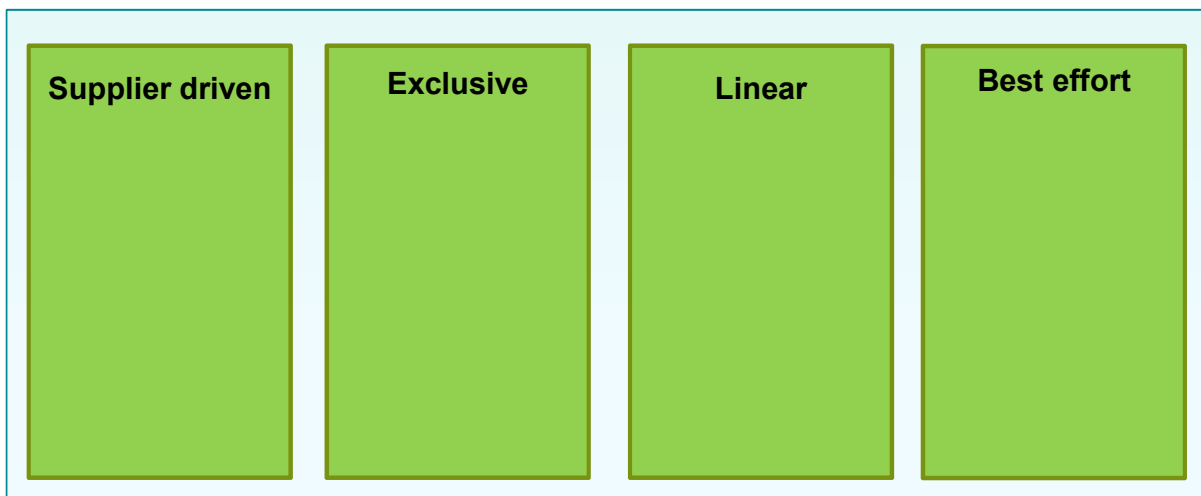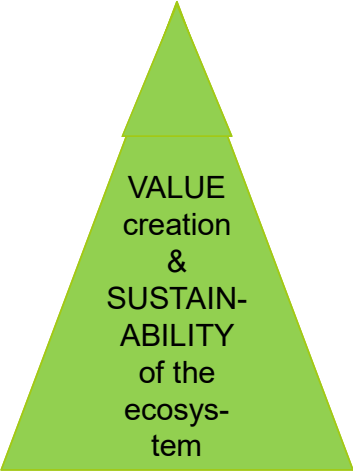
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ODECO and the challenges

- Challenges 1-2 addressed by training 15 PhD candidates

- Challenges 3-5 addressed by 15 PhD research projects

ODECO: 15 PhD projects

PhD no.	Project title
	Enhancing inclusiveness & circularity:
1	Strategies for building data capacity
2	User interface design: optimising findability
3	Value assessment and (re-)distribution in sustainable open data ecosystem
4	Open licensing of Non-Government Data
5	Technical interoperability in the open data ecosystem
6	Maximising availability and use of local government open data
7	Interdomain semantic interoperability
8	Technical aspects for inclusiveness across user domains in data portals
	Enhancing user driven & inclusiveness:
9	Enhancing open data ecosystem: data journalist perspective
10	Open data usage in elementary schools
11	Investigating the influence of resources provided by NGOs on the usability of open government data
12	Enhancing open data ecosystem: government as a user perspective
13	Investigating the co-creation of public services by governments and companies
14	Enhancing open data ecosystem: Algorithm and intelligence perspective
15	Enhancing open data ecosystem: intermediary perspective

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ODECO training programme

1. Individual PhD Research Trainings
2. Online Training Programme
3. Network wide Training Weeks
4. Communication and Public Engagement Activities

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11

1. Individual PhD Research Trainings

1. PhDs will be enrolled in the local doctoral schools
2. Joint supervision, mentoring and secondments

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2. Online Training Programme

Module 1 – Introduction: open data, open data ecosystem;

Module 2 - Stakeholders: open data actors, their needs, roles, perspectives, and conflicts of interest;

Module 3 - Technology 1: data preservation, open data publication, semantic technologies;

Module 4 - Governance: public values, open data governance, task/resource allocation, actor engagement;

Module 5 - Legal aspects of open data: access/reuse, data protection, IPR/licensing of data, competition;

Module 6 - Technology 2: open data interoperability, open standards, data analytics;

Module 7 - Open data business models: open business models, business cases and innovation;

Module 8 - Best Practices: showcases, lessons learned, implementation strategies.

3. Network wide Training Weeks

Training Events
Training week 1: 'Understanding open data as an ecosystem'
Training week 2: 'Towards a user driven open data ecosystem' (challenge 3)
Training week 3: 'Towards a circular open data ecosystem' (challenge 4)
Training week 4: 'Towards an inclusive open data ecosystem' (challenge 5)
Training week 5: 'Towards the open data ecosystem'

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14

3. Network wide Training Weeks

Training week 1 (M10-12)

Day 1: Network Day: PhD progress presentations to the ODECO network & Social event

Day 2 & 3: Master Class I:

>   Day 2 - Open data in practice: academic, NGO, government and business perspectives and lessons learned
>   Day 3 - Interdisciplinary learning and research concepts, approaches/ methods, and activities of the open data ecosystem

Day 4: Professional Skills Training: IPR in research/ education; ethics and professional integrity; team working, group dynamics, organizing (public) events

Day 5: Launch event "Open data ecosystems in 2030" including needs presentations of key stakeholders and a roundtable discussion with relevant decision-makers.

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4. Communication and Public Engagement Activities

- Outreach event in each Training week
- each PhD writes **blog entries**
- Each PhD organizes a dissemination and **public engagement event** during professional secondment, in collaboration with the non-academic partner hosting this secondment
- Presentations at scientific conferences and peer-reviewed **publications**
- Organisation and participation of the **Final Conference**

Finally,

MOOC 'The Open Data Ecosystem' integrating contributions from the different PhD projects on **various aspects of open data ecosystems.**

- ESRs will learn how to **develop new - online - training material** based on their research.

Curriculum on open data ecosystems.

17

Interested: let us know

- Email: info@odeco-research.eu
- Website: www.odeco-research.eu
- Social media channels
  - LinkedIn: https://www.linkedin.com/groups/12546644/
  - Twitter: https://twitter.com/ODECO_etn
  - Zenodo: https://zenodo.org/
  - Facebook: https://www.facebook.com/groups/876557733208982

Thank you for your attention