SynSICRIS: Explore Synergies for Societal Impact in Current Research Information Systems

euroCRIS Webinar Series
27th November 2020
Aims and background of the project
  Birge Wolf, Andrea Moser - University of Kassel
Q & A

Live-Demo
  Birge Wolf, Doris Lange - University of Kassel

Technical Highlights
  Andera Bollini - 4Science
Q & A
SynSICRIS-Project

Intended Impact

06/2023

Results

Results are ready to use for funding agencies and research institutions

Next Steps

11/2020

Objectives

Material & Methods

11/2017
Background of SynSICRIS

Contribute to solve societal challenges

Increased focus on societal impact in research funding

Evolved concepts for transfer and transformation

Focus on agricultural/food/environmental research

SynSICRIS Synergies for Societal Impact in Current Research Information Systems
Background of SynSICRIS

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**SynSICRIS** Synergies for Societal Impact in Current Research Information Systems
Objectives of SynSICRIS

Assess contributions of research to societal impact and make use of it

Support impact-oriented funding processes

Advance impact-oriented planning and action in projects
Limitations of Impact Measurement

- Input Background & Funding
  - Different initial conditions
- Research Processes & Outputs
- Outcomes (Use of results)
  - Complexity in innovation systems
  - Attribution-gap
- Societal Impact
  - Time-lag
  - Diversity of impacts
  - Limits of measurability
Central Output of SynSICRIS

**Funding Agency**

**Monitoring-Tool**
+ Indicators
+ Functions

**Evaluation**
Criteria-Set
Ex-post Project Evaluation
Material & Methods

- Integration of theoretical and empirical approaches
- Requirement analysis (researcher, funder, knowledge-user)
- Usability testing
- Agile software development
SynSICRIS-Project

- **Intended Impact**: 06/2023
- **Next Steps**: 11/2020
- **Results**: 11/2017
- **Objectives Material & Methods**

Results are ready to use for funding agencies and research institutions.
Criteria and Project Evaluation

Set of Criteria

Ex-post Project Evaluation

Monitoring-Tool
**SynSICRIS Approach**

**Scope of assessment:**
Output and performances of a project that promises a relevant societal impact

**Main Objective:**
Creating criteria which can explain what makes an societal impact likely to emerge

**Monitoring projects:**
- Start and end, scope, performance and output of consortia
- In the interest of funders for programme evaluation
Reflexive and Responsible Research and Innovation processes

Contribution to Innovation systems

Contribution to Sustainable Development
Reflexive and responsible research and innovation processes

How was the research process conducted to contribute to societal impact?
Contribution to innovation systems

Were innovations and solutions being developed?
Is it likely that these solutions will be distributed?
Has the innovation capability been improved?
Contribution to Sustainable Development

Are sustainable goals to be reached by project application?
How to apply the criteria in project evaluation?

Dimension

Criterion

Aspect

Aspect

Aspect

Aspect

.....

Mix of Qualitative Quantitative Data
Dimension 2: Integration and interaction for problem solving

Criteria 2.4: The interactions and activities made it possible to contribute to solutions for the problem and research questions.

Aspects

- Involved stakeholders matched research questions
- Early realised interactions and activities
- Continuously interactive process

<table>
<thead>
<tr>
<th>Qualitative data:</th>
<th>Quantitative data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of stakeholders,</td>
<td>Number of activities,</td>
</tr>
<tr>
<td>Intensity of participation,</td>
<td>Number of stakeholders,</td>
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<tr>
<td>Description of the problem,</td>
<td>time</td>
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<tr>
<td>Size of interactions and activities</td>
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</table>
Ex-post project evaluation

Remote - single reviewer: assessment according to the criteria set with robust data

reviewers

On-site - panel: consensus-finding process

ex-post project assessment
Data input in the course of the funding process

User interfaces for consortia

Interface-management to external data sources
User interfaces for consortia

Impact Pathway

Parts of text documents are replaced.

Working Plan
What impacts shall the project contribute to? And how?

Inspired by CIRAD Ex-ante Impact Assessment & PIPA

Involve Stakeholders & Partners in the development process!
Content covers Information for

- Actors
- Research process
- Reflection
- Interactions
- Application (Opportunities)
- Expected Societal Impacts

Criteria + Project management & supervision + Programme management & evaluation
Use of the information

Project-management & supervision

Knowledge transfer & Innovation

Programme management & evaluation

Ex-post project evaluation
SynSICRIS-Project

Results

Objectives
Material & Methods

Next Steps

11/2017

11/2020

Intended Impact

06/2023

Results are ready to use for funding agencies and research institutions
11/2017

11/2020

Pilot at funding agency

Testing

Improving

06/2023

Cooperation & Dialogue

Developing
Intended Impact of SynSICRIS

- Support impact-oriented funding processes
- Advance impact-oriented planning and action in projects
- Projects work impact-oriented
- Reputation and incentives for researchers
- Programme design
- Programme evaluation
- More insights into contributions to societal impact
- Ex-Post project evaluation

Transfer & Innovation
to cope with societal challenges
Reporting
Reports example
Project supervision

Versions made available for the funder
Search and navigate between overview and detail
Validation and Comments

- Validation function
- Comment feature
Comment overview
Complementary to the administrative software
Dashboards - Examples

Apache - Total Visitors: 4,931,584
Apache - Unique Visitors - City:
- Beijing: 562
- Mumbai: 458
- Shanghai: 420
- Delhi: 371
- Paris: 285
- London: 233
- Tokyo: 232
- Singapore: 208

Apache - Unique Visitors: 29,740

Apache - Bytes and Count:

Apache - Country and Status:

Apache - Country traffic by hour:

Apache - Visitor Map (geospatial):

Apache - Browser to Country (e.g.):

Graph visualization of various data metrics and trends for Apache, including total and unique visitors, bytes and count, country and status, traffic by hour, visitor map, and browser to country relationships.