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# Lithuanian Young Researchers and Open Science

— Perspectives and Scenarios —

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Eurodoc Oslo, 2017-04-27

# Background

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# Lithuanian higher education at change

Ongoing changes:

1. Mergers
2. Increased scholarship
3. Smart specialization.

# Open Science

Open Science is a huge change.

Can be compared to:

- Gutenberg's press
- Invention of writing
- Citation metrics

# Perspectives of young researchers

.. and some other stakeholders

EC survey (not available for online dissemination, slides removed)

Other observations

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# Other observations: institutional priorities

Are institutional KPI's aligned with open science?

Usual set of KPI would include:

- Funds attracted.
- Grants won.
- Articles published in journals with ISI > x

# Other observations: interest in open science events



OpenCon Lithuania

Hard to find presenters.

Hard to find participants.

More interest in Open  
government data.

40 participants

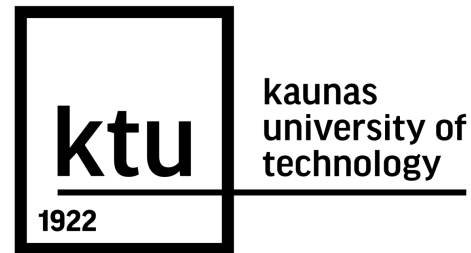
- 10.00 Saulius Gražulis. **Crystallography Open Database.**
- 10.30 Vaidas Morkevičius. **Open Data for Enhancing the Quality of Research: European Social Survey.**
- 11.00 Brigita Serafinavičiūtė. **Open Science - The Essential Ingredient of Our Future?**
- 11.30 Gintarė Tautkevičienė ir Ieva Cesevičiūtė. **Open Science in Horizon 2020: OpenAIRE Support for Researchers, Research Managers and Funders**
- 12.00 Lunch Break **Free Lunch!**
- 13.00 Povilas Poderskis. **We're Opening Up Data: So What?**
- 13.30 Mantas Zimnickas. **How Open is Lithuanian Government Data? atviriduomenys.lt** (presentation in lithuanian language)
- 14.00 Vida Mildažienė. **Steps Towards Open Science and Education in Lithuania**
- 14.30 Aidas Kasparas. **OpenStreetMaps and Value of Sharing Data** (lithuanian language)

# Other observations:

## Institutional environment

Kaunas University of Technology library carried out a survey on institutional environment. 18 institutions responded.

- Open access policy - 6/18
- Open access to research data policy - 3/18
- Institutional research publication repository - 10/18
- Institutional research data repository - 1/18
- Researchers must prepare data management plan - 1/18





# The challenge

Individual

Institutional ?

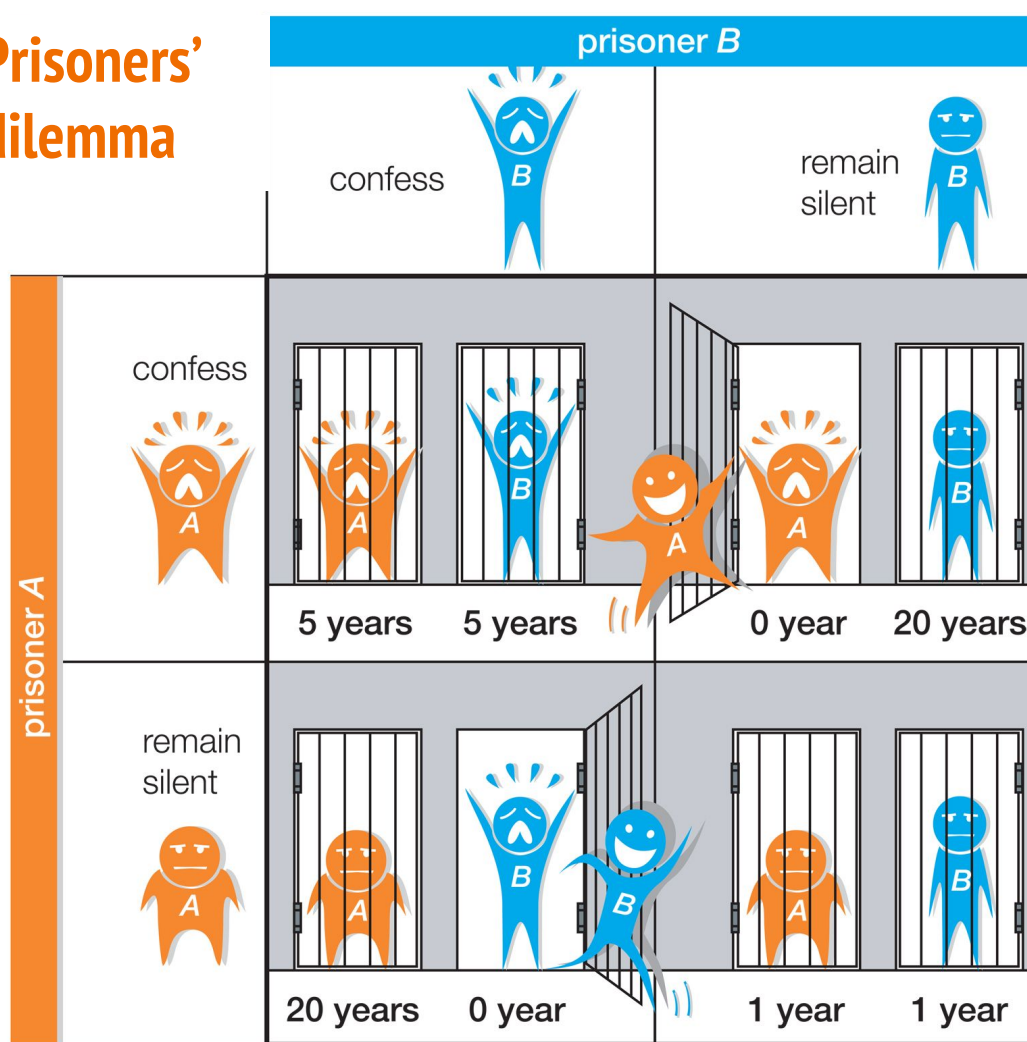
Societal ?

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Trust



# Prisoners' dilemma





## **Data Reuse as a Prisoner's Dilemma: the social capital of open science**

**Bradly Alicea**

**Orthogonal Research, <http://orthogonal-research.weebly.com>**

### **ABSTRACT**

Participation in Open Data initiatives require two semi-independent actions: the sharing of data produced by a researcher or group, and a consumer of shared data. Consumers of shared data range from people interested in validating the results of a given study to transformers of the data. These transformers can add value to the dataset by extracting new relationships and information. The relationship between producers and consumers can be modeled in a game-theoretic context, namely by using a Prisoners' Dilemma (PD) model to better understand potential barriers and benefits of sharing. In this paper, we will introduce the problem of data sharing, consider assumptions about economic versus social payoffs, and provide simplistic payoff matrices of data sharing. Several variations on the payoff matrix are given for different institutional scenarios, ranging from the ubiquitous acceptance of Open Science principles to a context where the standard is entirely non-cooperative. Implications for building a CC-BY economy are then discussed in context.

**Keywords:** Game Theory, Open Science, Infonomics, Econosemantics

# Individual researchers: mindset

Strategy:

- Play the game.
- Monitor open science tools and initiatives.
- Use opportunities.

**Thanks!**