



Dr.-Sc. Andrew Clifton

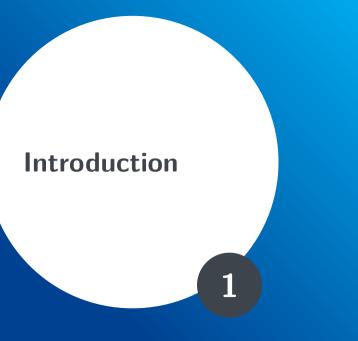
LIKE
Open Science Course
Seminar 3:
Intellectual Property

27 October 2020

### **Today's discussion**

- 1 Introduction
- 2 Recap:The LIKE Open Science Course
- 3 Let's talk about who owns (your) science
- 4 Closing thoughts

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### Our goals for today

#### Discuss the practicalities of being open

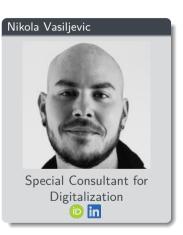
- Who's data is it anyway?
- Patents and licensing
- Sharing data versus enabling collaboration



Image courtesy National Gallery of Art, Washington.

#### Who's here?

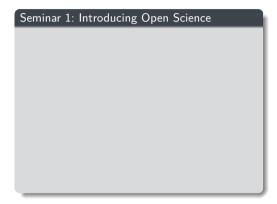








# The story so far



### The story so far

#### Seminar 1: Introducing Open Science

Open science is the movement to make scientific research and its dissemination accessible to all levels of an inquiring society, amateur or professional.

Open science is transparent and accessible knowledge that is shared and developed through collaborative networks.

-Wikipedia

### The story so far

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# Seminar 2: Introduction to FAIR and R5 Principles

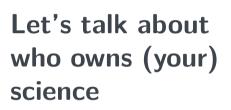
- FAIR: Findable, Accessible, ..., ... ?
- R5?

#### Self-study: is your group's work FAIR?

What do you think?

### **Course outline**

Seminar	Self-study	Assignment
1. Introducing open science		
	1. Background reading	
2. Guiding principles		
	2. Is your group's work FAIR?	
3. Open science and intellectual property		
	3. <u>Implementing open science</u>	
4. Communicating your science		
	4. Communications strategies	
		1. Implementation case study
5. What are data management		
plans and why do they matter?		
	5. Draft a data management plan	
Workshop: Open science in LIKE		
	6. Revise data management pla	<u>n</u>
		2. Data management plan



# What are the outputs of science?

# Who's data is it anyway?

Your creative output at work belongs to your employer.

• It is their Intellectual Property (IP).

IP can take many forms:

- Formalised through patents, trademarks, copyright,...
- Also found in papers, presentations, photos, videos, audio,...

Using IP without permission is "IP Infringement" (not good).



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### A detour - open science and open source



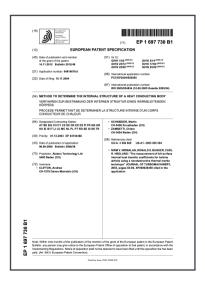
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Let's think about this:

- What's open source software?
- Is open source software free to use?
- Why would you have to pay for open-source software?

Making software open source helps open science, but isn't essential

### **Identifying IP**



IP can protect solutions, form, and content:

- Patents
- Design rights or design patents
- Trademarks
- Copyright

But it is up to you to protect 'trade secrets' from competitors!

### Licenses tell people how they can use code or products

Once you have protected your IP, you can think about sharing it





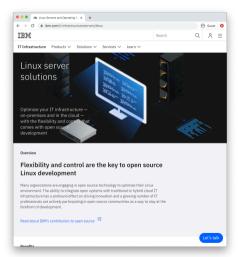
Get a lawyer involved!

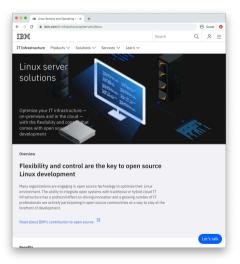
### An example from the COVID-19 response

Amazon, Facebook, Fujitsu, Hewlett Packard Enterprise, IBM, Intel, Microsoft, NASA JPL, Sandia National Laboratories, and Uber are among the dozens of companies and institutions that have used the Open COVID Pledge to make their patents and copyrights open to the public in support of solving the COVID-19 pandemic.

—Creative Commons Is Now Leading the Open COVID Pledge—Here's What That Means. Creative Commons, 27 Aug 2020

But can you make money like this?





Like any business, you need to add value.

- Deploy it for customers
- Provide training
- Customize it
- Develop add-ons
- Create an ecosystem



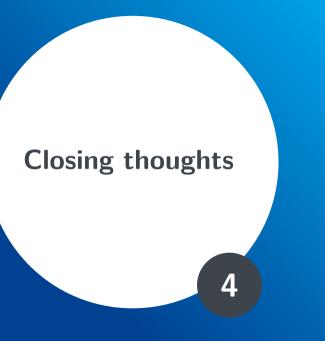
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Photo by Waldemar Brandt on https://unsplash.com/s/photos/bikeUnsplash

#### Good solutions are

- Flexible but focused
- Modular
- Easy to use



# **Seminar summary**

#### You've learned:

- What intellectual property is
- How licenses can help you
- How openness doesn't stop you making money
- That you need to get a lawyer involved.



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#### What to do now

#### Further reading

- The Birth of Linux: How Linux Got Started. (Linux.com, 2020)
- The open Bike Initiative

#### Self-study 3: Implementing Open Science

Working with your group, implement at least two of the ideas you identified in self-study 2.

See the guidance on GitHub.

#### Seminar 4: communicating your science

Selling your brand and research through social media, professional networks, etc., and other strategies to make people aware of your work.

• See the Seminar materials on GitHub

### Let's make this presentation open



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#### **Findable**

This presentation has a DOI:

#### Accessible

This presentation is archived at Zenodo.org.

The source code is available through GitHub

#### Interoperable

This material is produced using the LATEX 'Beamer' package.

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Andy Clifton Institute of Aircraft Design (IFB), University of Stuttgart

eMail clifton@ifb.uni-stuttgart.de

Telefon +49 711 685 683 25

Web www.uni-stuttgart.de/windenergie