

# Alliance4Life

Mezinárodní benchmark jako analytický nástroj kvality výzkumu výzkumné instituce

Brno 15.5.2019

Nikola Kostlánová, Zlatuše Novotná

[www.alliance4life.eu](http://www.alliance4life.eu)



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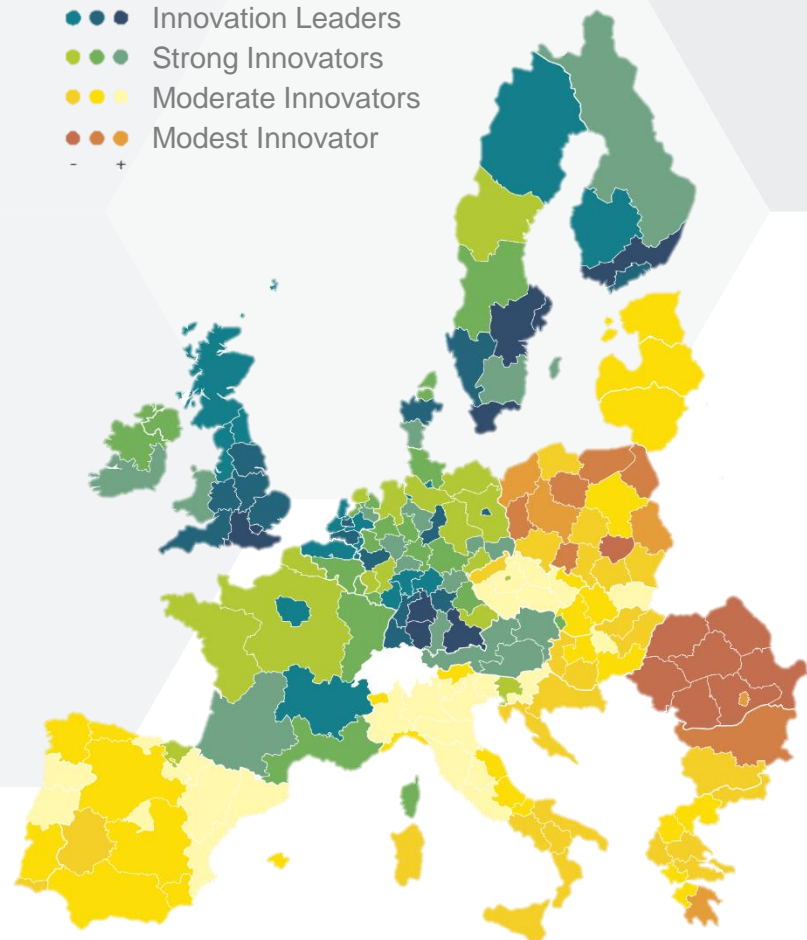


# Closing Research & Innovation Gap in Europe



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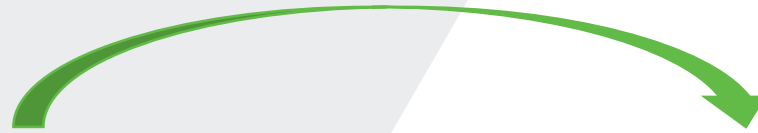
- ● ● Innovation Leaders
  - ● ● Strong Innovators
  - ● ● Moderate Innovators
  - ● ● Modest Innovator
- +



2018-2019

University of Tartu (UT)/EST  
Latvian Institute of Organic Synthesis (LIOS)/LAT  
Vilnius University (VU)/LT  
Medical University of Lodz (MUL)/PL  
Masaryk University (CEITEC MU)/CZE  
FNUSA-ICRC/CZE  
Biomedical Research Centre  
of the Slovak Academy of Sciences (BMC SAS)/SVK  
Sемmelweis University (SU)/HU  
University of Ljubljana (UL)/SLO  
University of Zagreb, School of Medicine (UZSM)/HR

# Bridging two sister Strategic Alliances in Life Sciences



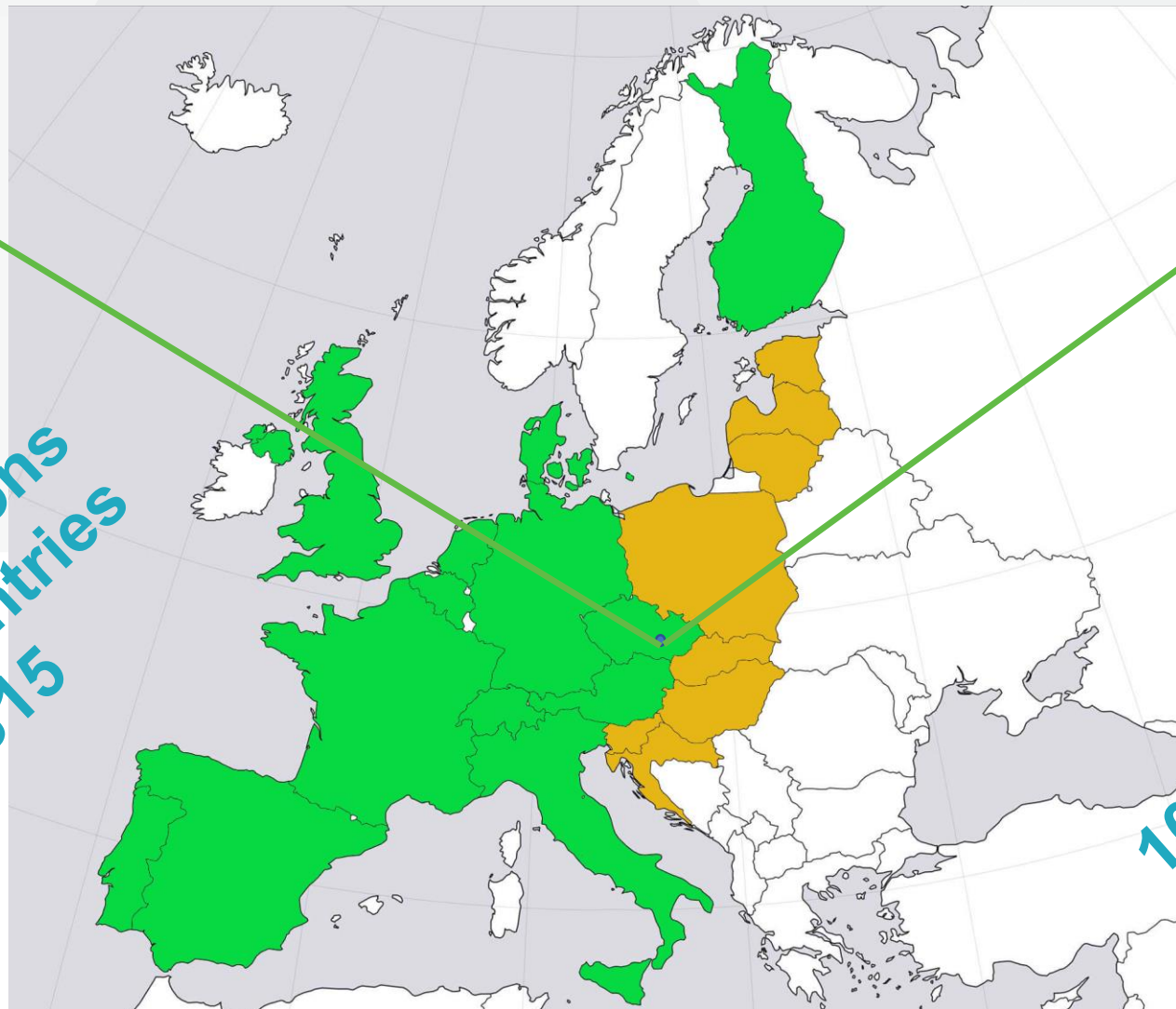


# EU-LIFE & Alliance4Life



eulife

13 LS institutions  
from 13 countries  
of EU15



Alliance4Life

10 LS institutions  
from 9 countries  
of EU13



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# Alliance4Life as a Project

- **Title:** Alliance for Life Sciences
- **Funding scheme:** Horizon2020 / Health, demographic change and well-being
- **Duration:** 1.1.2018 –31.12.2020
- **Budget:** EUR 945 000
- **Consortium:** 10 institutions from 9 countries of EU-13
- The consortium plans to establish Alliance4Life as a permanent structure after the project duration
- **Coordinator:** Masaryk University (CEITEC MU)

# Strategy of Institutional Progress

... What can we do?



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A4L Strategies  
(Nov 2019)



# Benchmarking



Not a competition,  
but revealing who  
can help others



... Where we are?

Qualitative & Quantitative

$$\begin{aligned} \text{Apple} + \text{Apple} + \text{Apple} &= 30 \\ \text{Apple} + \text{Banana} + \text{Banana} &= 18 \\ \text{Banana} - \text{Coconut} &= 2 \\ \text{Coconut} + \text{Apple} + \text{Banana} &= ? \end{aligned}$$

Assessment  
report  
(Jan 2019)

on the website!



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# Barriers & Enablers

... How to overcome /  
to use them?



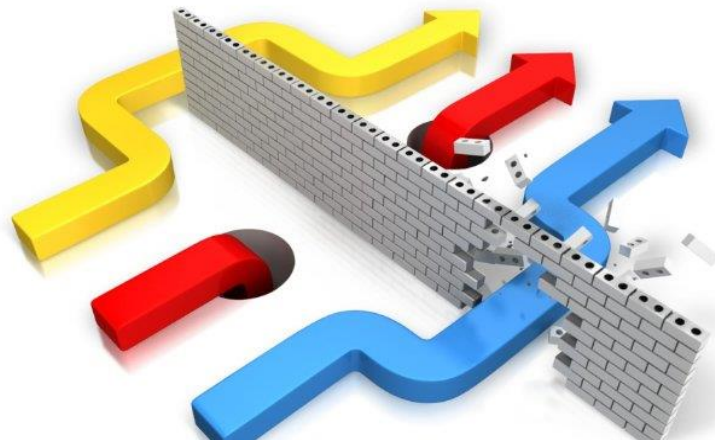
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Institutional  
level

Inventory of best practice  
(Jan 2019)  
& Trainings

on the website!





# Research policy

National level

National  
roundtables

(Prague, 22 May 2019)



... How to translate /  
them into policy?

EU level

Statement on Horizon  
Europe proposal  
(July 2018)

White paper -  
policy recommendations  
(July 2019)

# Outreach & Spillover



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**Strategy**

(Mar 2018)

**Website, logo**

(Mar 2018)

**E-Newsletter**

(Jun 2018)

**Social media**

(ongoing)

**Podcast**

(Jun 2019)



**COMMUNITY  
OUTREACH**



LE  
RU

**CELSA**  
Central Europe Leuven Strategic Alliance



# Embedding

Travel grants

(Sep 2018)



Engaging scientists



A4L formal establishment



Memorandum of  
understanding

(Vilnius, Oct 2019)

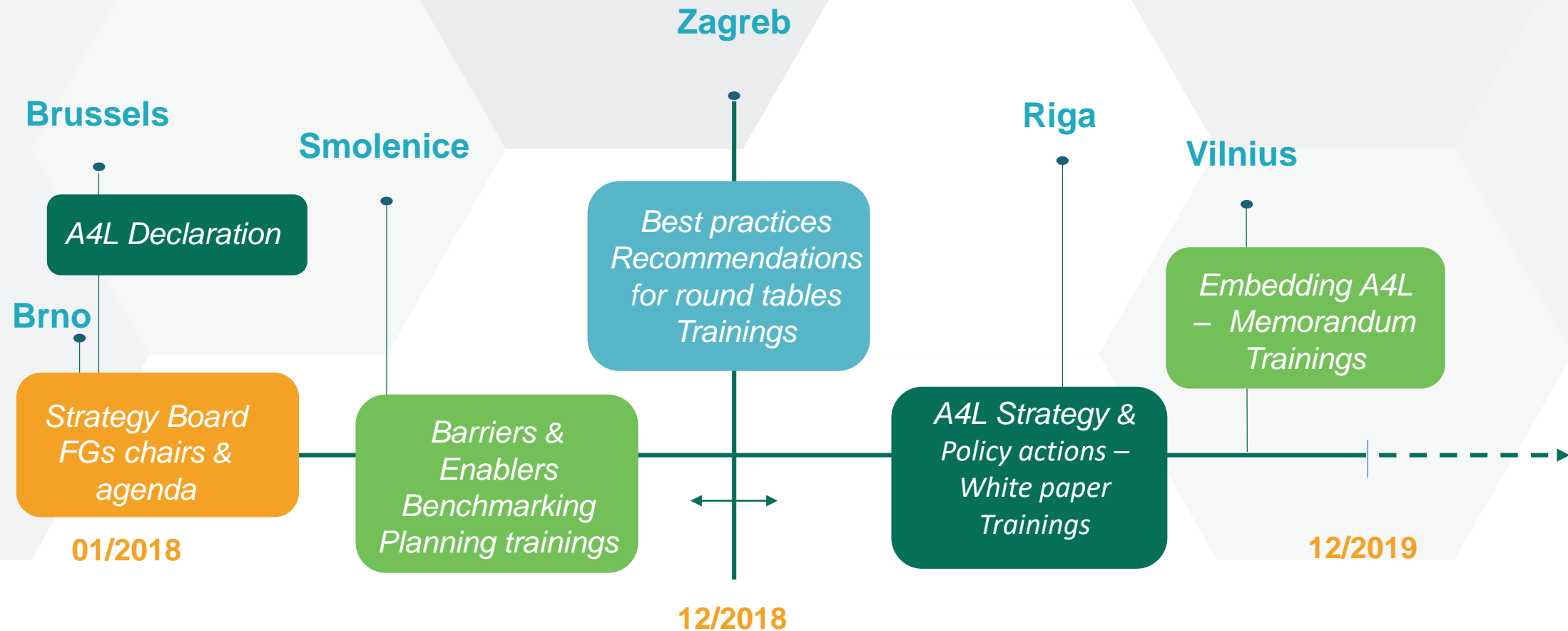


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# Aliance4Life meetings



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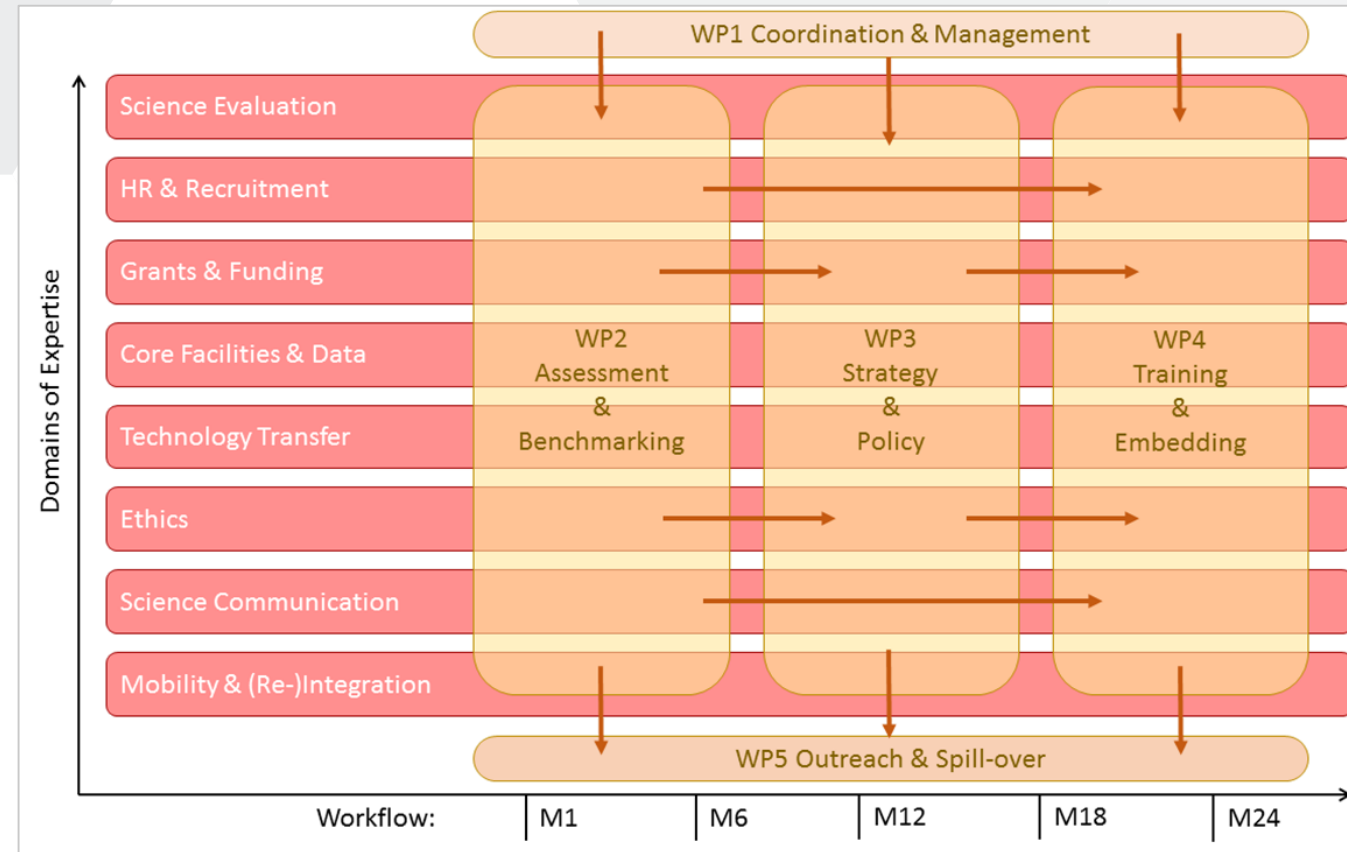


# Focus Groups & Work Packages (2018-2019)



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BENCHMARKING  
BEST PRACTICES  
POLICY PAPERS  
TRAINING  
PROGRAMMES  
KNOWLEDGE-SHARING  
ROUND TABLES  
RECOMMENDATIONS



# FG Science Evaluation



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# FG Science Evaluation – 2018-2019

- **Benchmarking and Assessment Report (Jan 2019)**
  - to compare scientific performance of Alliance4Life members and towards advanced institutions from EU 15
- **The most effective system of institutional evaluation:**
  - common standard process of evaluation based on good practice and the workable systems of the most prominent EU institutions
- **Database of experts** in different scientific fields:
  - **a/ evaluation** (individual, institutional – national grant providers, European Commission),
  - **b/ mentoring** of junior researchers, c/co-supervising of PhD candidates.
- **Open Access & Publishing houses**

# A4L - Assessment report

- Identification and precise definition of relevant indicators
- Standardization of data on FTE and Funding
- Interpretation of the figures in context of different missions, national and institutional conditions...
- Matching the outstanding result with particular measure – develop a good practice repository
- Giving a feedback to the management of institutions, national and EU stakeholders





# A4L - Assessment report



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## 120 indicators

e.g.:

- Number of publications
- Number of MSCA, ERC
- Number of CFs
- .....

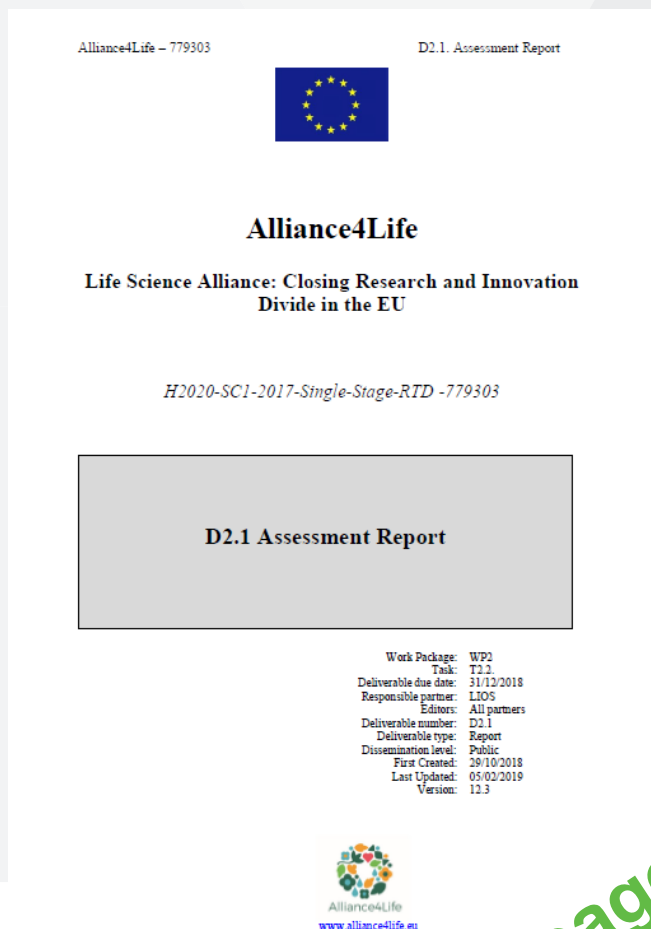
## 5 domains

- Research excellence
- Knowledge transfer
- Funding and Grants
- Human Resources
- Core Facilities

## 120 definitions

e.g.:

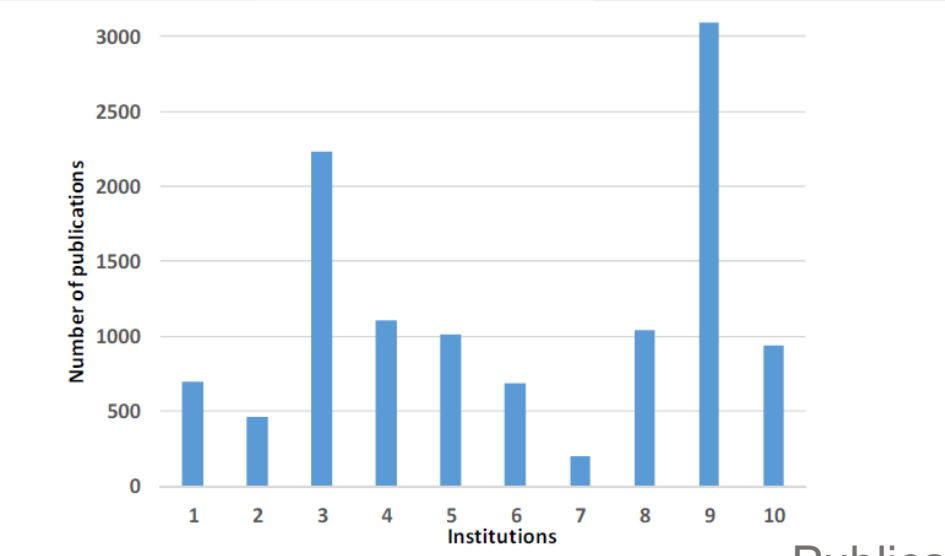
Number of publications that are part of the Web of Science Core Collection; type of document (i.e., article, review, or letter) published 2015 – 2017 (cumulative total for the whole period)



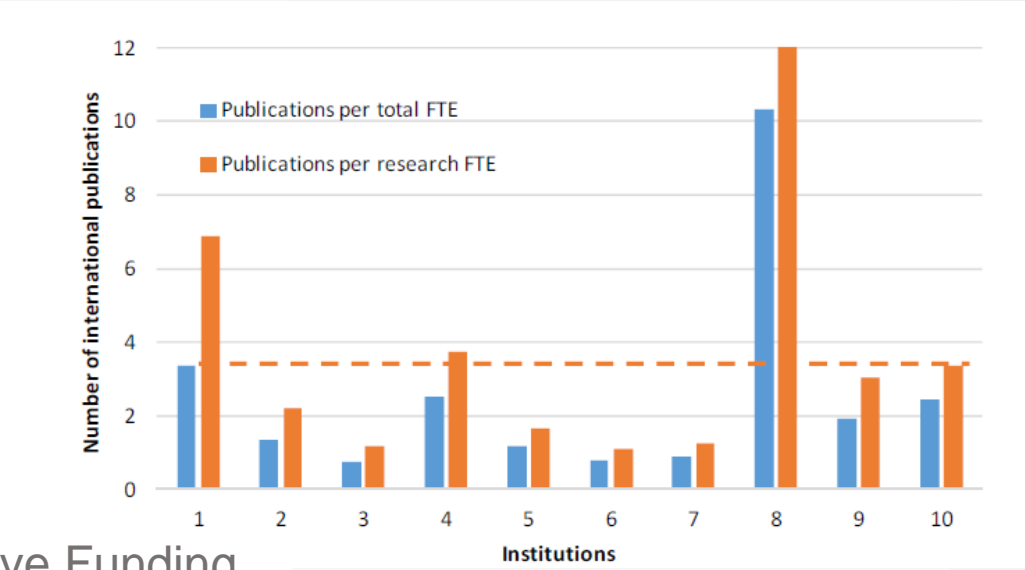
44 pages

# A4L - Assessment report – research excellence

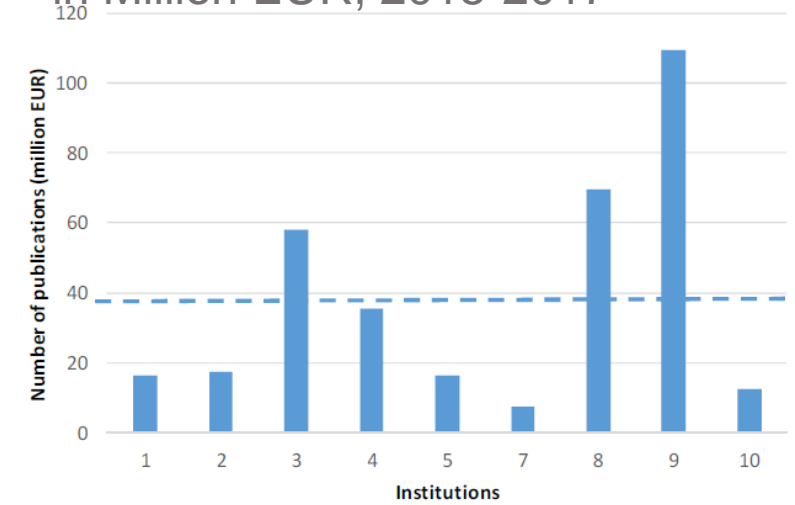
Total Number of Publications, 2015 - 2017



Total Number of Publications 2015 – 2017/FTE



Publications per Operative Funding in Million EUR, 2015-2017

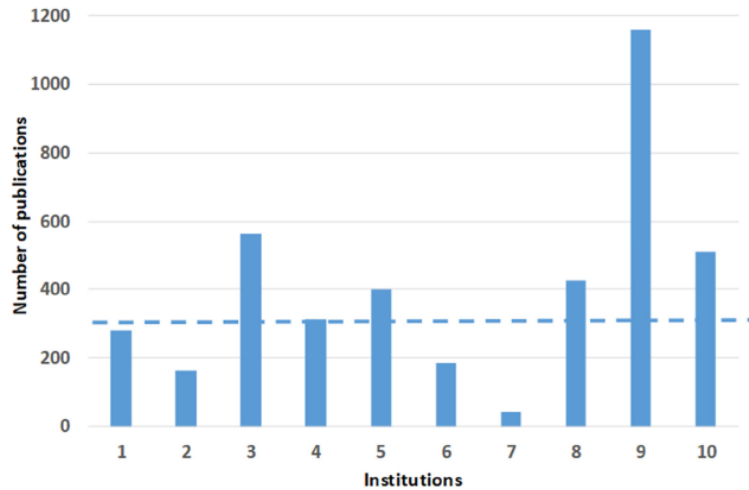


# A4L - Assessment report - RE

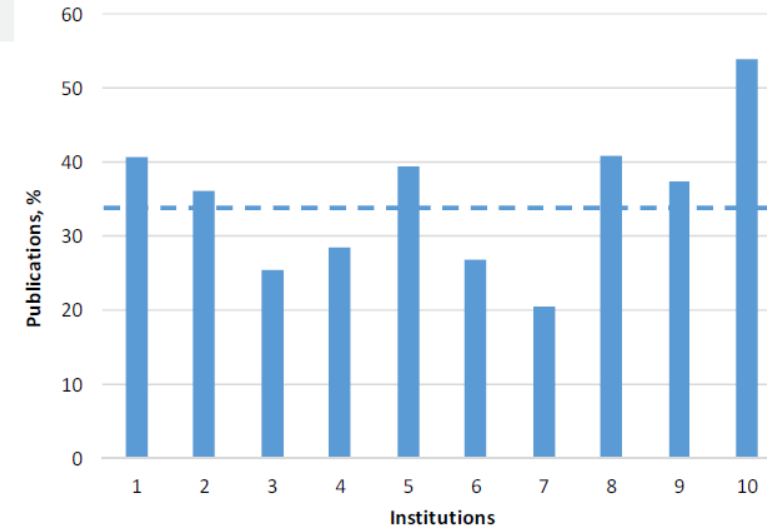


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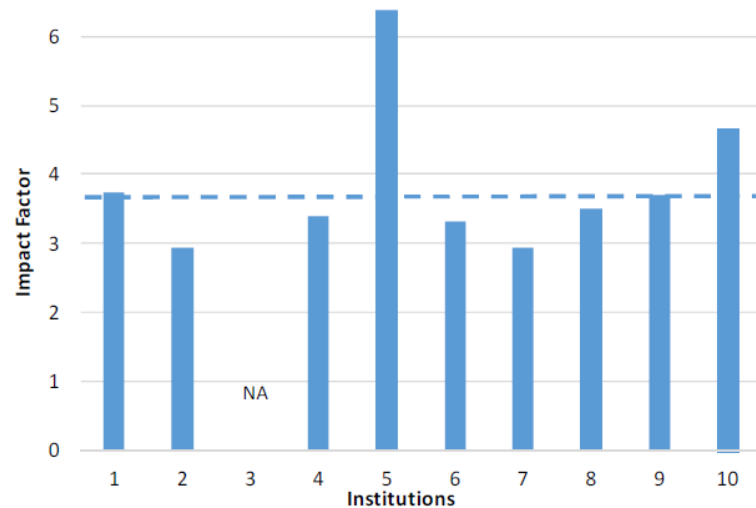
Number of Publications in Q1, 2015-2017



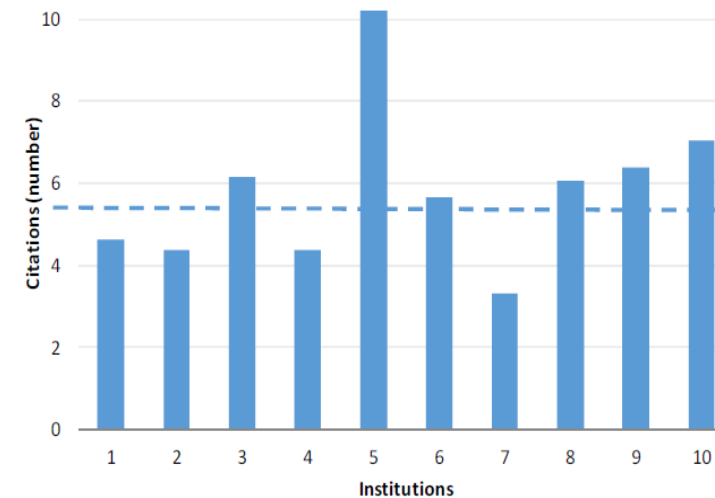
% of Quartile 1 Publications, 2015-2017



Average Impact Factor (IF), 2015-2017

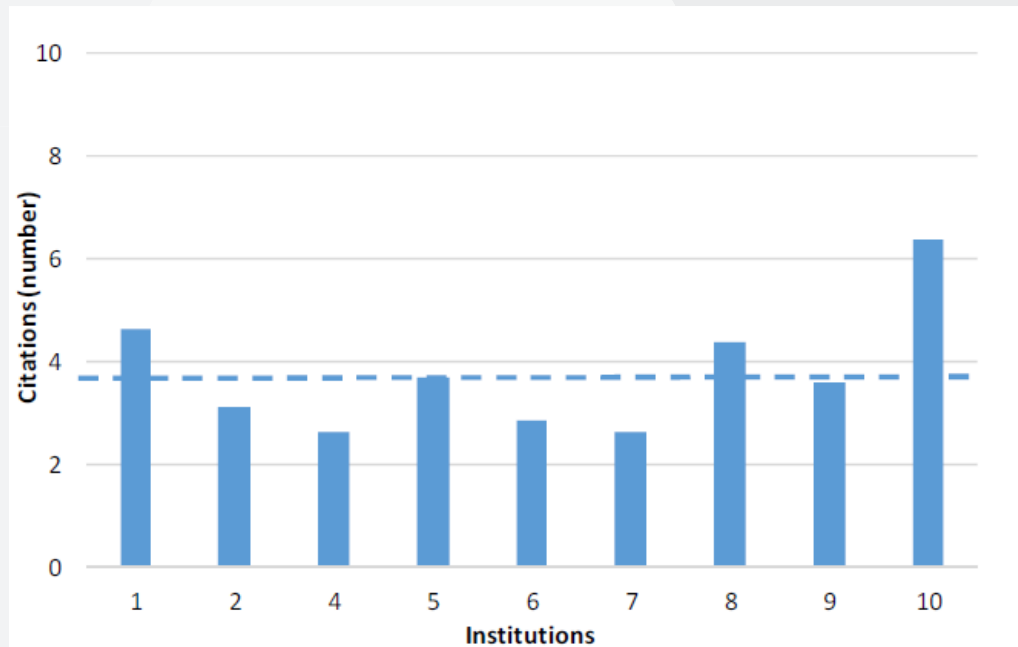


Average Citations per Publication, 2015-2017

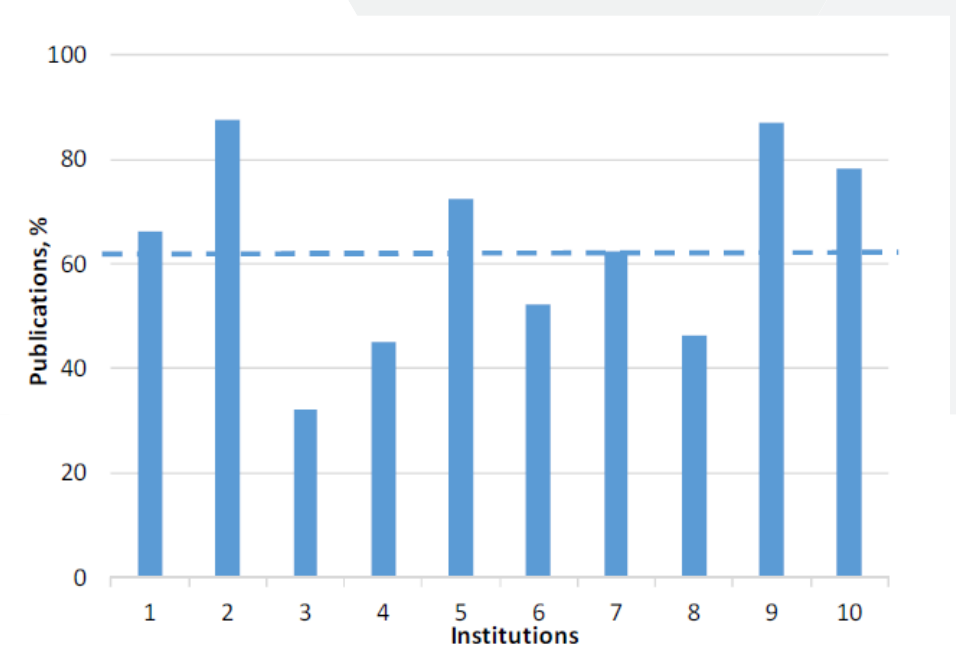


# A4L - Assessment report - RE

Average Citations of Corresponding Author,  
2015-2017



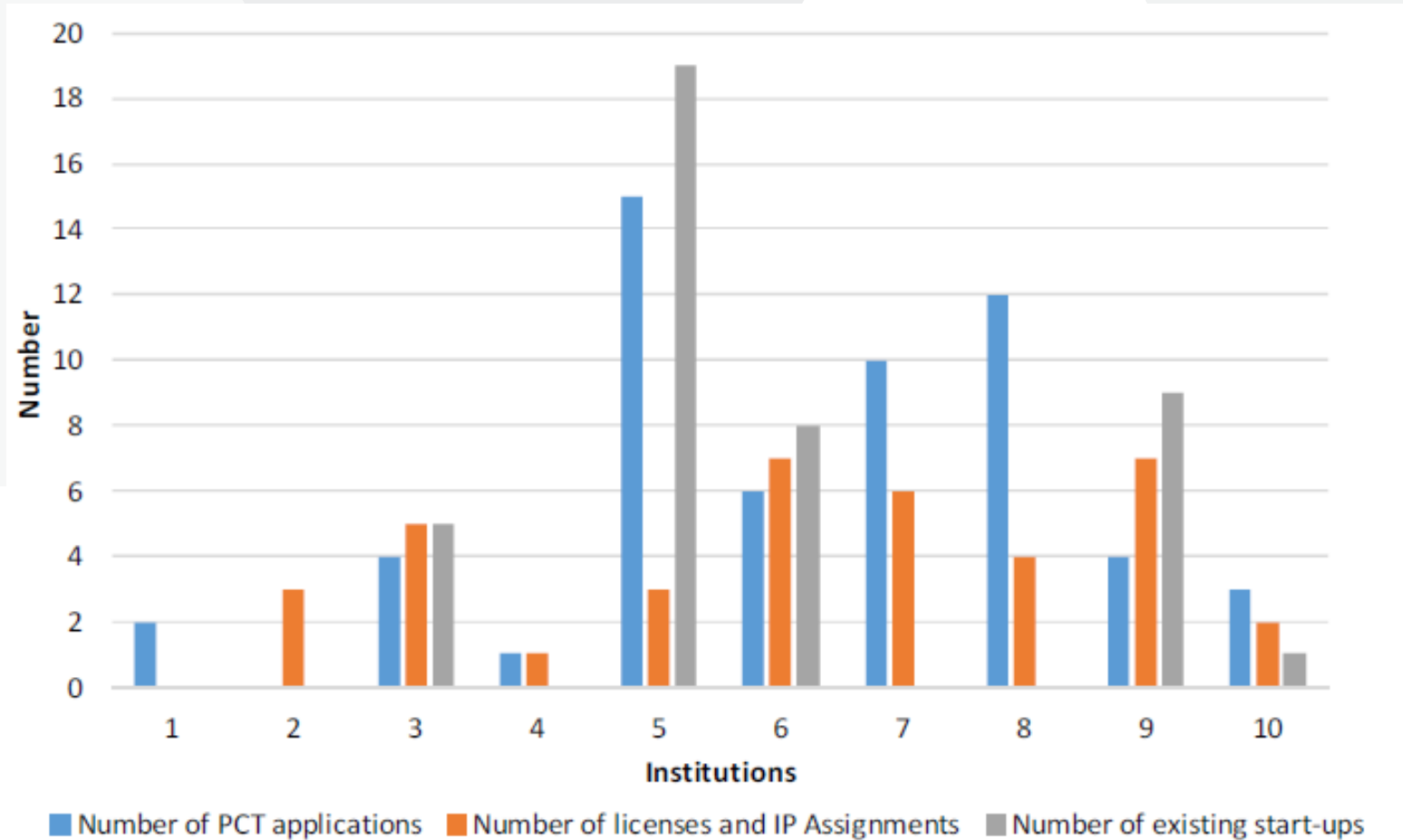
% Publications with External Collaboration,  
2015-2017





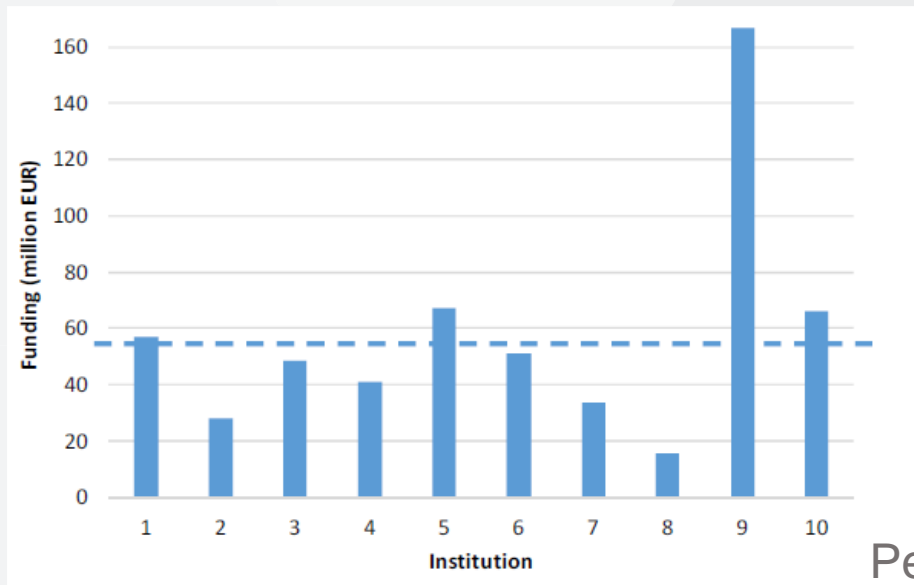
# A4L - Assessment report – Knowledge Transfer

Number of patents, licences and start-ups, 2015-2017

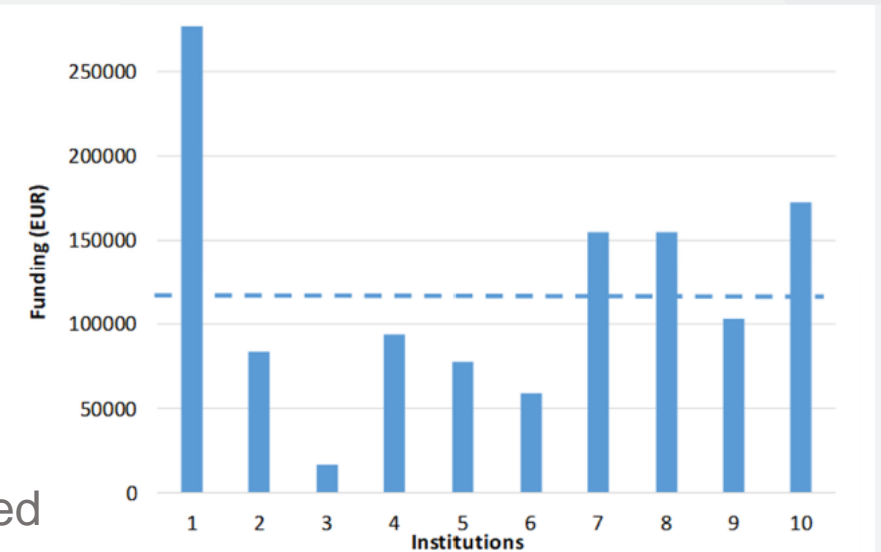


# A4L - Assessment report – Funding

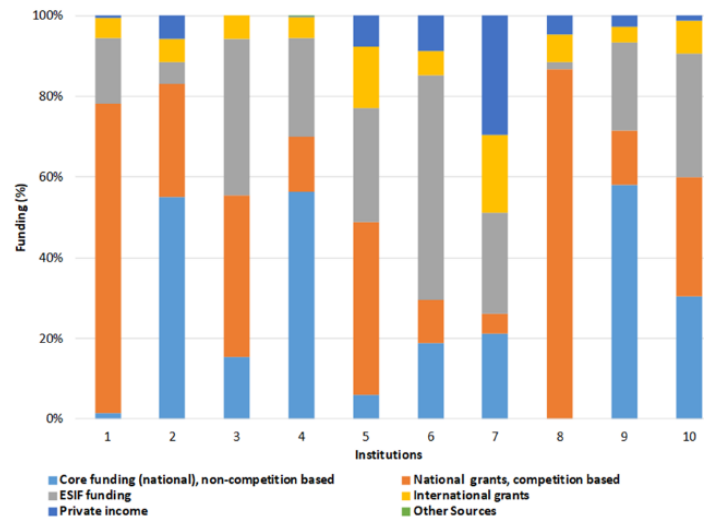
Total Awarded Funding, Million EUR, 2015-2017



Awarded Funding per total FTE, EUR, 2015-2017

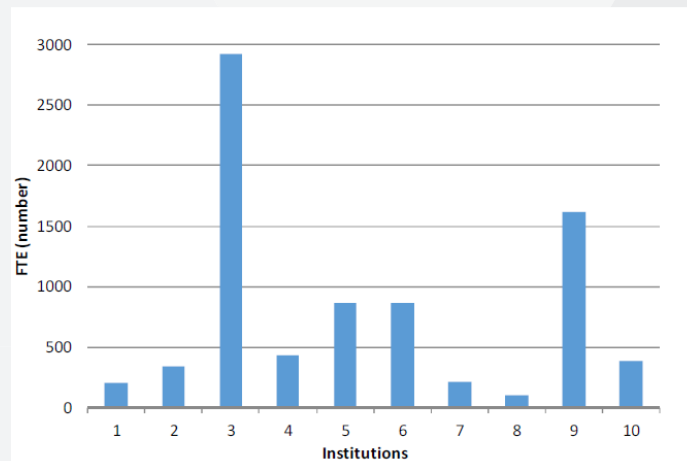


Percentage of Types of Awarded Funding, 2015-2017

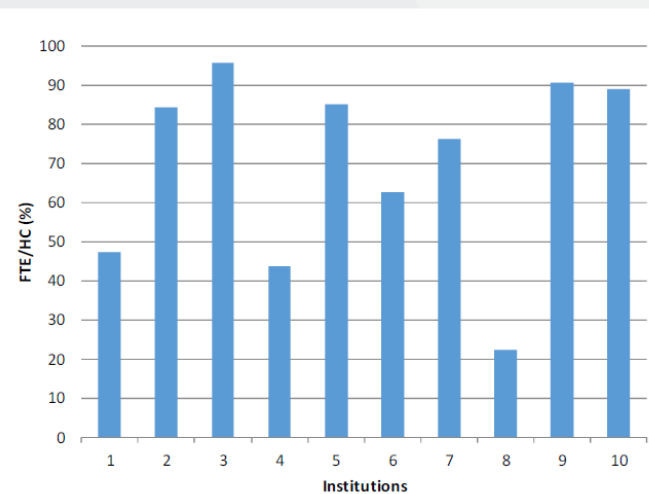


# A4L - Assessment report – Human Resources

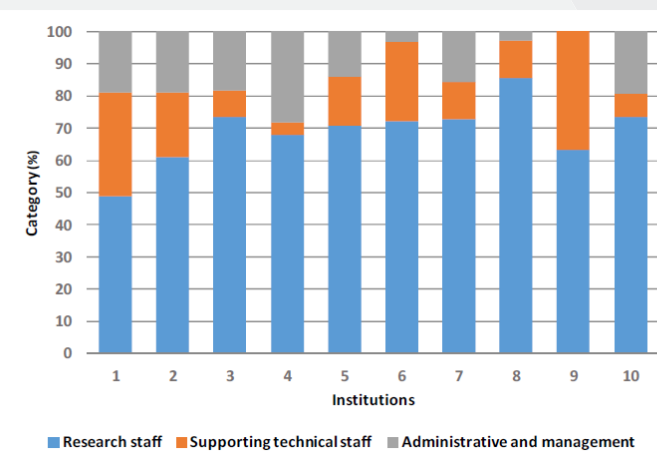
Total FTE of Staff, 2017



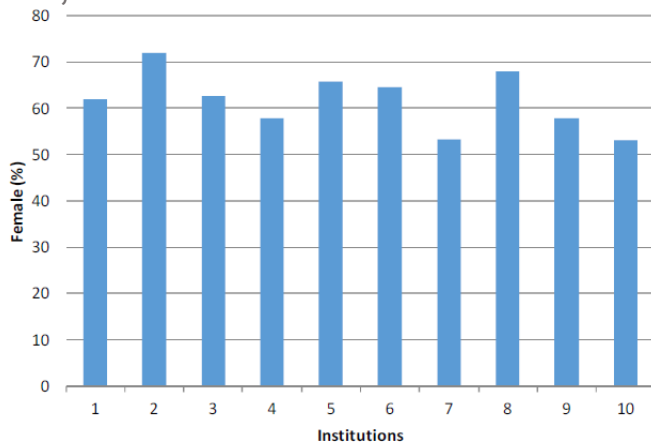
Staff FTE/HC in %, 2017



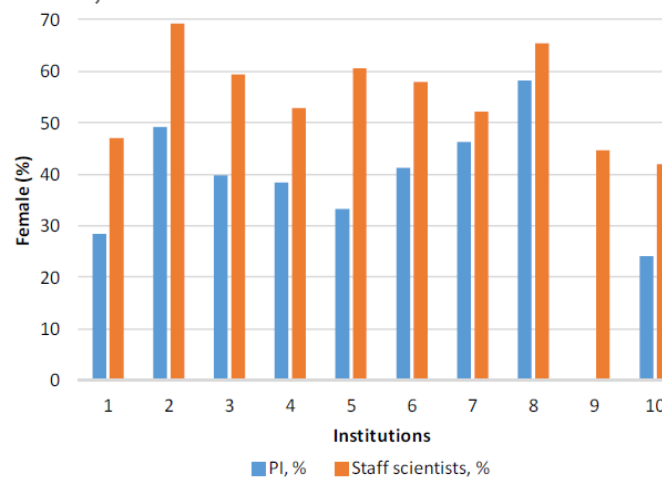
Categories of Total staff, %, 2015



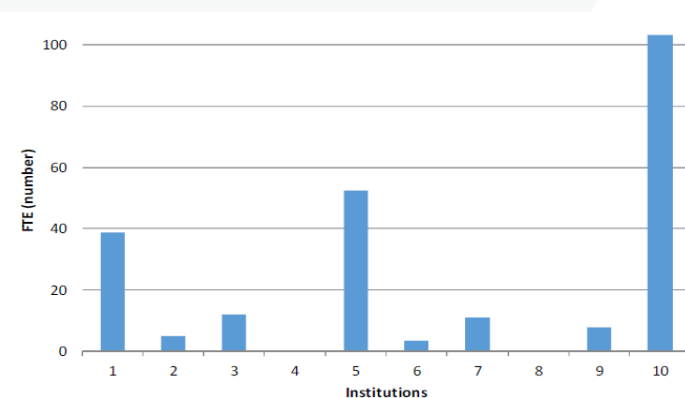
Gender proportion of female, %, 2015



Leaky pipeline of female PIs, %, 2015

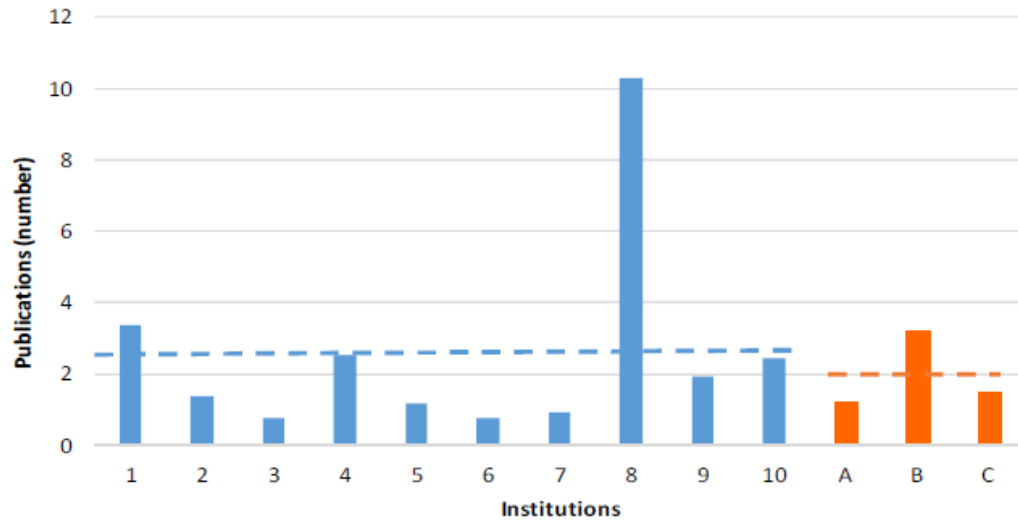


International Research Staff, FTE, 2017

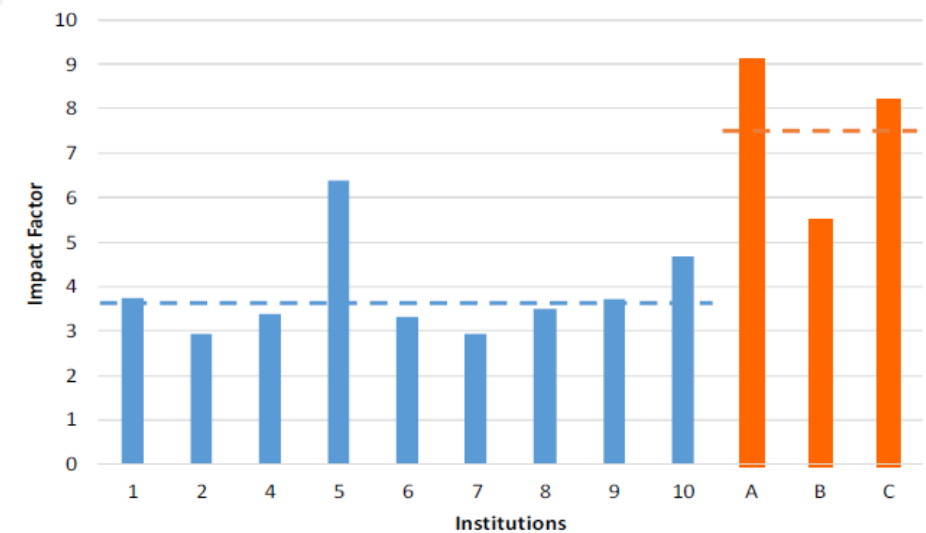


# A4L - Assessment report – EU13 vs. EU15

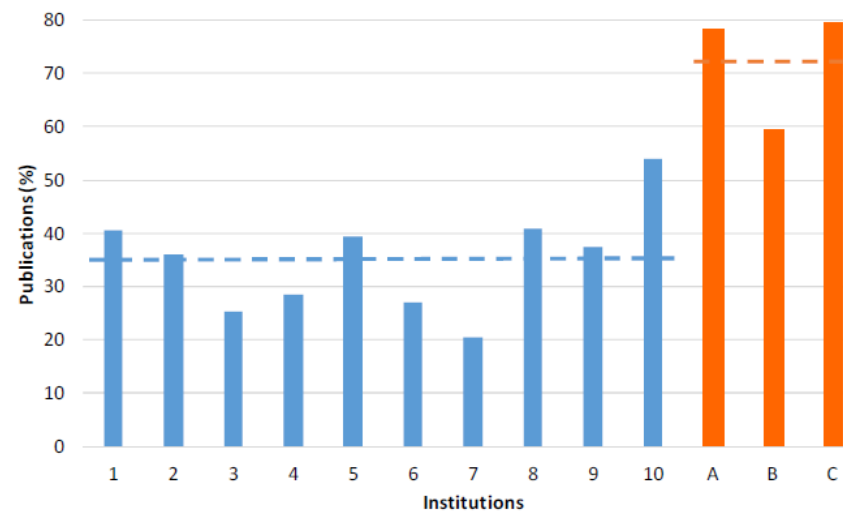
Publications per Total Staff FTE, 2015-2017



Average Impact Factor, 2015-2017



Percentage of Q1 Publications, 2015-2017





# A4L – The most effective system of evaluation

## Institutional level

- Process of Evaluation (peer-review, bibliometry, benchmark) must be:
  - Transparent
  - Reproducible
  - Regular
  - Expectable
- Bibliometry:
  - The Quality should be assessed by a position of the journal in tier or quartile rather than IF
  - The authorship should be taking into account
  - The phase of career of the author must be taking into account
  - The overproduction is not a proof of the quality
- Benchmark:
  - The data must be collected precisely, regularly and in long-term perspective.
  - Universal indicators

# A4L – The most effective system of evaluation

## National level

- The most suitable system of evaluation is an informed peer review
  - 4-years periodicity
  - Mission of the institution must be considered
  - Process must be transparent, reproducible, regular and expectable
- Avoid the conflict of interest:
  - Evaluation panel should be appointed from the most prominent external experts
  - The identity of evaluators should be hidden until the evaluation
  - Potential Col must be announced in advance

**„Share your knowledge.  
It's a way  
to achieve immortality“**

Dalai Lama



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SEE YOU LATER

