

ევროკავშირი
საქართველოსთვის
Project funded by the European Union



EU ENI East Twinning project
Supporting inter-sectoral collaboration possibilities between
Research and Industry
GE 18 ENI OT 02 19

Training for Grant office representatives:

“Training on science networks – How to merge profiles of scientists”

20 April 2022, 12-14h Tbilisi time (10-12h CET)



science KNOW



by Gilbert Ahamer et al.,
Environment Agency Austria
Twinning Component 4 on communication



business GROW

umweltbundesamt
ENVIRONMENT AGENCY AUSTRIA



JOANNEUM
RESEARCH

FWF

Der Wissenschaftsfonds.



DLR Projektträger

FFG
Promoting Innovation.



Structure

**This training includes
3 lecture units followed by
3 interactive work units:**

①

①

②

②

③

③

Introduction to Section ①

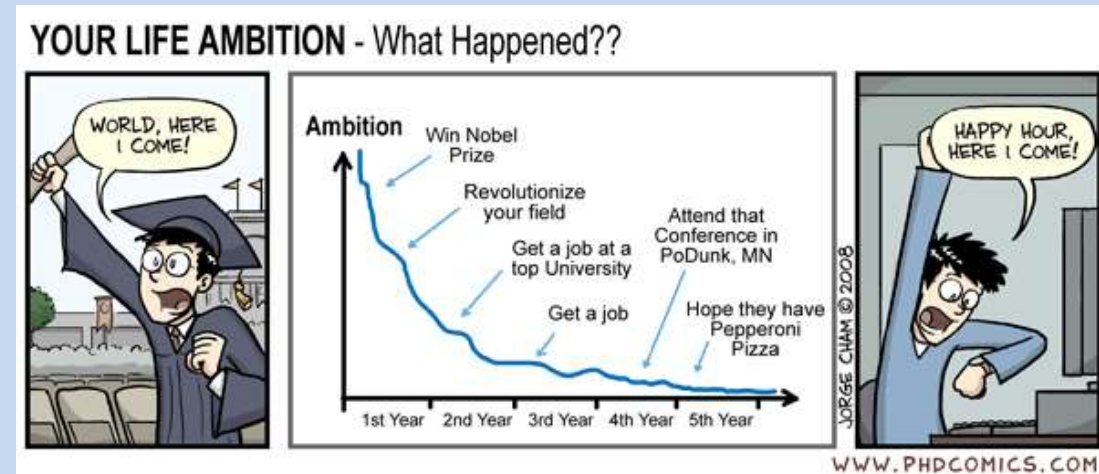
Criteria and skills (i) for successful scientists and (ii) for becoming part of international consortia

Slides by *Inese Gavarāne*, Resident Twinning Adviser RTA
and *Wolfgang Polt*, Twinning Project Leader

Profile of famous & successful scientist

Slide by Inese Gavarāne, Resident Twinning Adviser RTA

- open-minded and flexible – involvement in state and private sectors
- write papers and proposals
- communicate with a variety of audiences
- educate others
- keep an attitude of service towards the population
- take responsibility for investigations and actions
- effective communicator
- they can combine work and private life



In front of attempts to take away our enthusiasm ...
WE HAVE TO KEEP OUR *TEMPO* !

Skills are important

Slide by Inese Gavarāne, Resident Twinning Adviser RTA

- Develop your own research ideas: actively develop your talent
- Think about context: scientific and societal relevance
- Feasibility of research
- Realistic planning of a project
- Project formulation and planning

**Thinking ‘I can do better’
can improve performance**



Number of
publications and
impact factors are
easy to quantify...



**“the paper” is the
currency of science**

Think about future!

What should your track record should look like:

- Publications
- Patents
- Grants/awards
- International experience or activities
- Network: scientific and industrial/societal
- Dedication level

How to become (and remain) part of international consortia

Slide by Wolfgang Polt, Twinning Project Leader

- ❁ **Be visible on the international scene** – at conferences, in (professional) social media (ResearchGate, Academia, LinkedIn, ...), with a good (personal, institutional) home page
- ❁ **Be attentive** – follow the international tenders and calls for proposals very closely (best: urge your institution to set up regular screening of international calls and good internal communication; e.g. for Horizon Europe)
- ❁ **Read the call text very carefully** – they are often ambiguous and need interpretation. Communicate intensely with your partners and make sure you have a common understanding before elaborating the proposal
- ❁ **Be prepared for the cumbersome part(s)** – most international projects involve a good deal of admin and paper work. You will not be well-regarded by your partners if you are the one who does not deliver in time and flawlessly. If you want to lead (large) projects make sure your institution has the capacity to support you (→ Twinning with SRNSFG should enhance this capacity)

How to become (and remain) part of international consortia

Slide by Wolfgang Polt, Twinning Project Leader

- 🌱 **Be reliable** – consortia of projects often establish a longer lasting collaboration of partners in varying combinations. You will not be asked again if you turn out to be an unreliable partner missing deadlines and failing to provide inputs of high quality

Once you have become visible and experienced:

- 🌱 **Be proactive** – don't (only) wait to be invited, approach potential partners proactively ("Hey, we have a really interesting research idea/approach...")
- 🌱 **Make sure you are part of the Steering fora of the project** to have a say on the direction and to best place your interests

Sustained (i.e. on a broad scale and in the long term) success can only be achieved if **individual, organizational and systemic capacities reinforce each other**: as an individual scientist you need supporting institutions and a well-functioning 'research & innovation system'. Hence you have an interest in helping to establish such a setting!

Let's put ourselves in the **shoes** of the scientists you are supporting!



Section ①:

Ingredients for a successful network: mindsets, targets, partners, institutions

Gilbert Ahamer, Twinning Component 4 Leader

... we look from inside out ...



1. Mindset
2. Human
3. World

Starting point: what we create in our imagination => reality

mindset => real world

1. Create at first your ideal mindset, values & motivation

imagine => manifest!

2. Define your personal targets

↑ = arrows, directions

3. Conceive your ideal personal partners

⊕ = plus signs, assets

4. Conceive your ideal partner institutions

✖ = multipliers

1-4: Equilibrium of what you give them and what they give you:





Ingredient number one for any scientific network: mindsets

♥ Possible **mindsets**:

1. Improve your inspiration received from international practice
2. Increase your methodologies by professionalising them internationally
3. Widening your background understanding by including dissenting views
4. Strengthening your publications by co-authorships & better writing style
5. Enlarging your reaching-out by enlarging the public for your findings.

*These motivations mean **quantifiable targets** in several dimensions:*

science production

- Georgia * 1. *Conceptual* inflow
- Georgia * 2. *Methodical* soundness
- Georgia * 3. *Contextual* framing
- Georgia * 4. *Products'* outflow
- Georgia * 5. *Resulting* outreach

Write down your mindset 1

Write down your mindset 2

Write down your mindset 3

Write down your mindset 4

Write down your mindset 5



Interactive work ①:

Possible mindsets:

**“5 Ingredients for a successful network”
for a concrete team that you envisage**

(10 min.)

Let's put ourselves in the **shoes** of the scientists you are supporting!



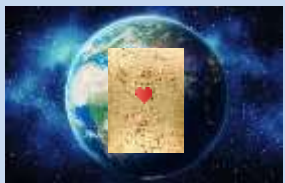
Section ②:

Define and analyse profiles of scientists

Gilbert Ahamer, Twinning Component 4 Leader

Our mathematical formula (😊)

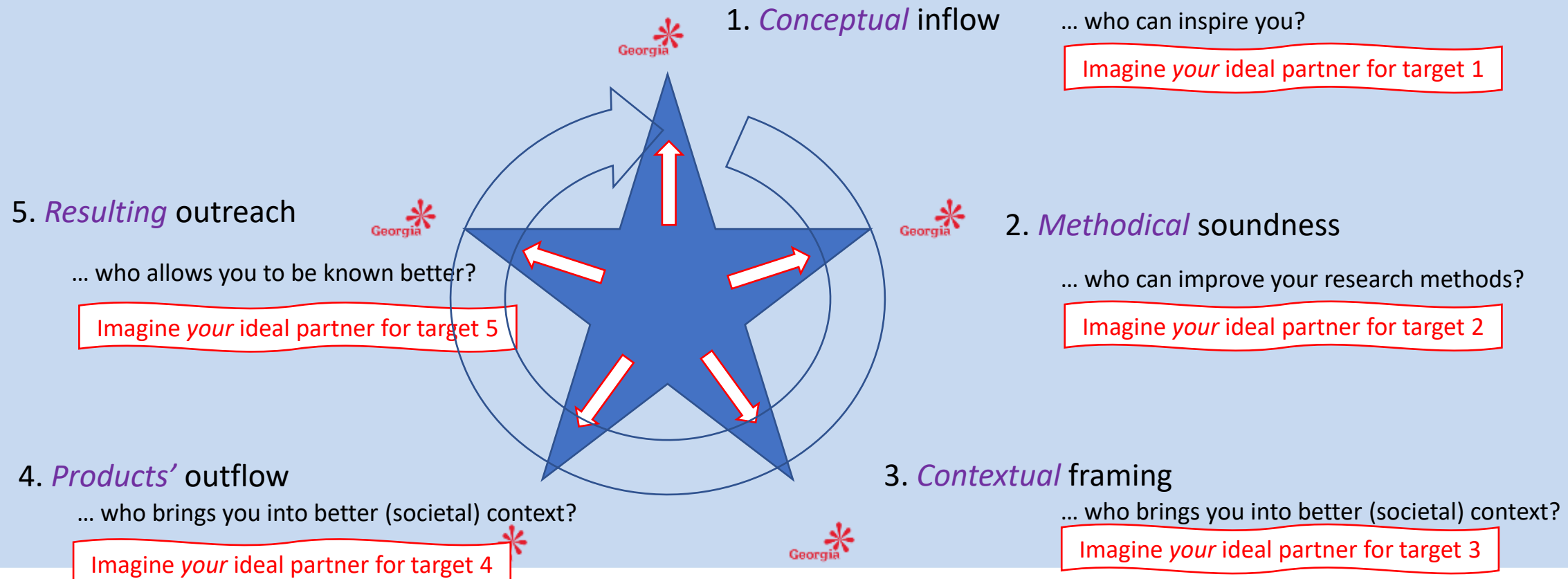
$$\text{person}^{+} = f (\text{target}^{\uparrow})$$



your network's "ideal" partner person = f (your network's target)

“person = f (target)” : Converting targets into persons

When you see these (or rather **your team's**) **targets** – how do they translate into finding suitable **persons**?



Converting targets↑ into persons +

idealised

When you see these (or rather **your team's**) targets – how do they translate into finding suitable persons?



1. *Conceptual* inflow

... select an inspirer ...

How you approach person 1

2. *Methodical* soundness

... select a methodologist ...

How you approach person 2

3. *Contextual* framing

... select a contextualiser ...

How you approach person 3

5. *Resulting* outreach

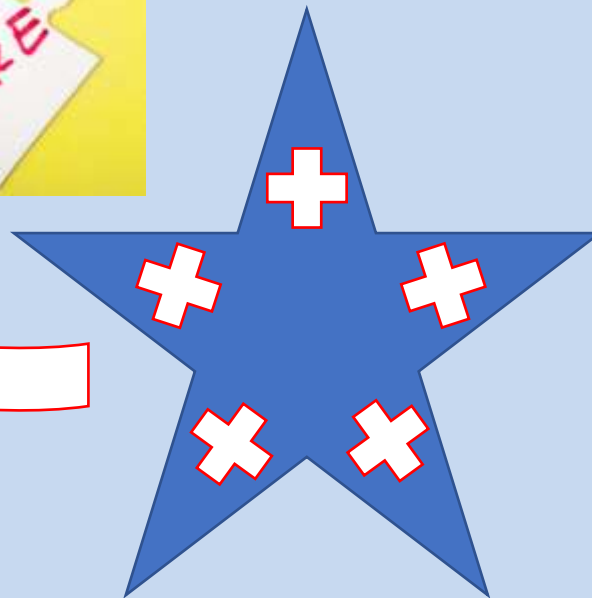
... select an outreach ...

How you approach person 5

4. *Products'* outflow

... select an implementer ...

How you approach person 4



Today's sequence of envisaged entities:

Targets [↑] => persons ⁺ => institutions [×]

your "ideal" institution = f (your target)

Converting persons into institutions

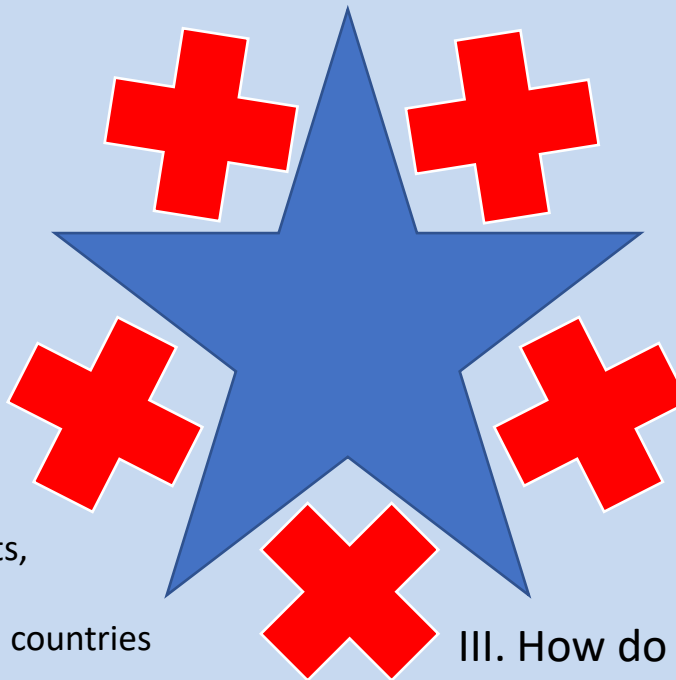
Institutions serve as a framing structure that allows individuals to act

V. Which result is appropriate
for which *payment*?

... minimum daily rates can
hinder cooperation

IV. What type of *result* brings
an institution forward?

... MoU, publications, books,
curricula, concepts,
policy reports, industrial products,
hardware, software,
relative attractiveness of cooper. countries



I. Are institutional *concepts* similar?

What is considered “progress” for an institution?

... research, administration, consulting,
strategy development

II. Do institutions esteem similar *methods*?

... experimental or theoretical,
literature analysis, philosophy;
mono- vs. trans-disciplinarity

III. How do institutions *function* internally & administratively?

... vertical vs. horizontal authority flow, (un)limited sovereignty

The overall image: targets ↑ => persons + => institutions ✕

Our “meta-map”:

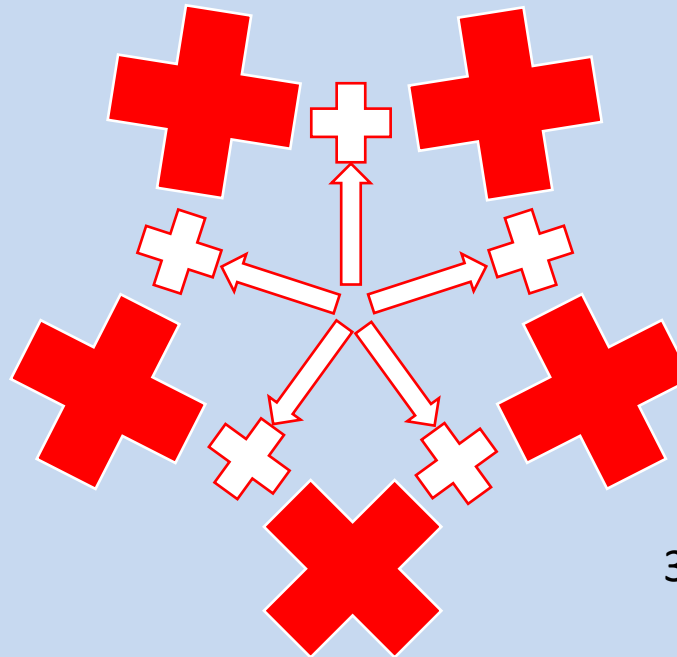
1. *Conceptual* inflow

5. *Resulting* outreach

2. *Methodical* soundness

4. *Products’* outflow

3. *Contextual* framing



“” means five dimensions for success

“+” means symbiosis, synergy



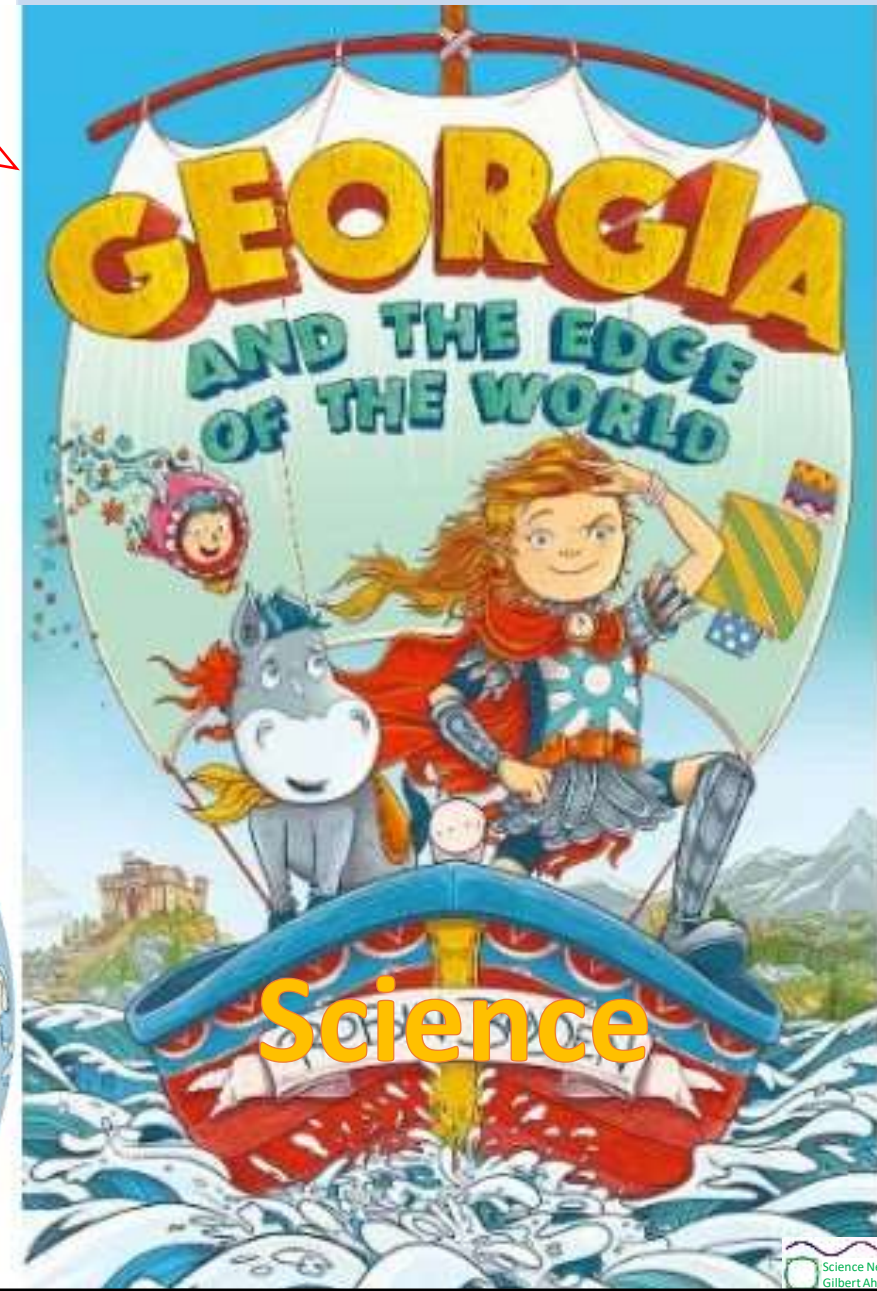
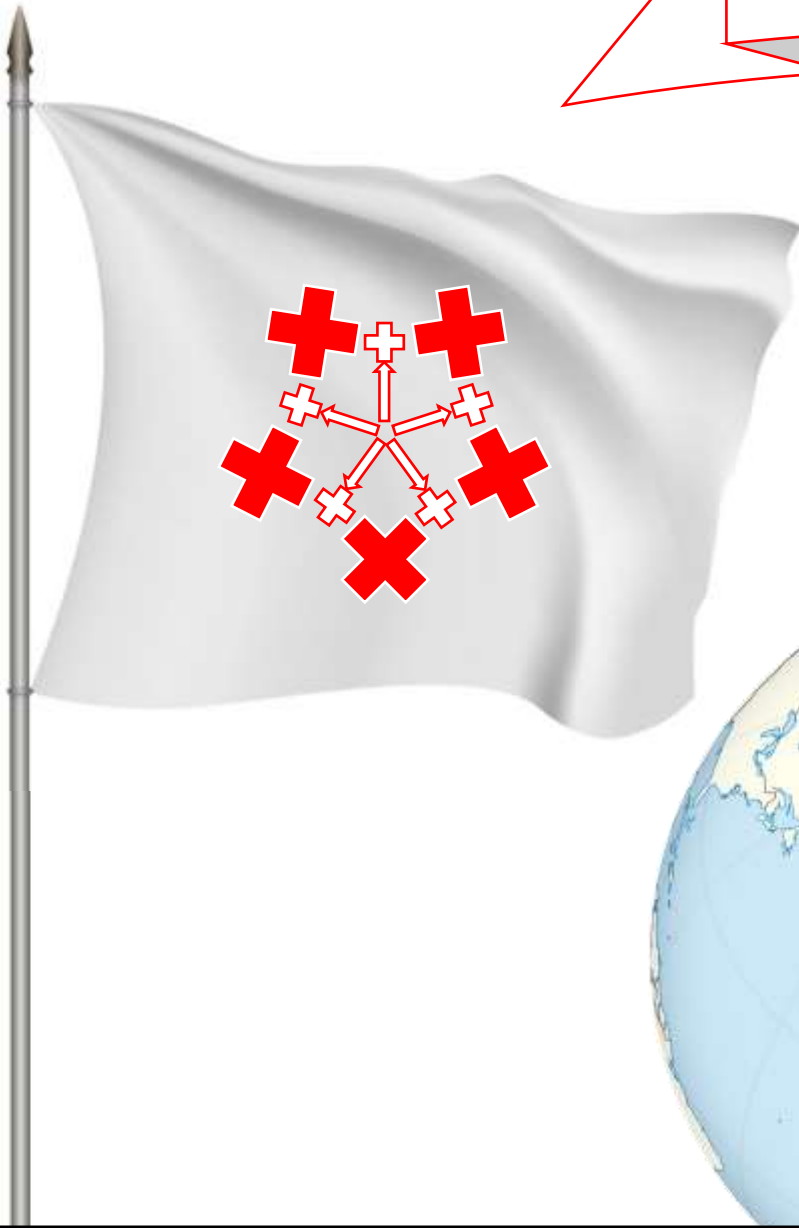
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Project funded by the European Union



**follow your carrier
follow your *bliss***



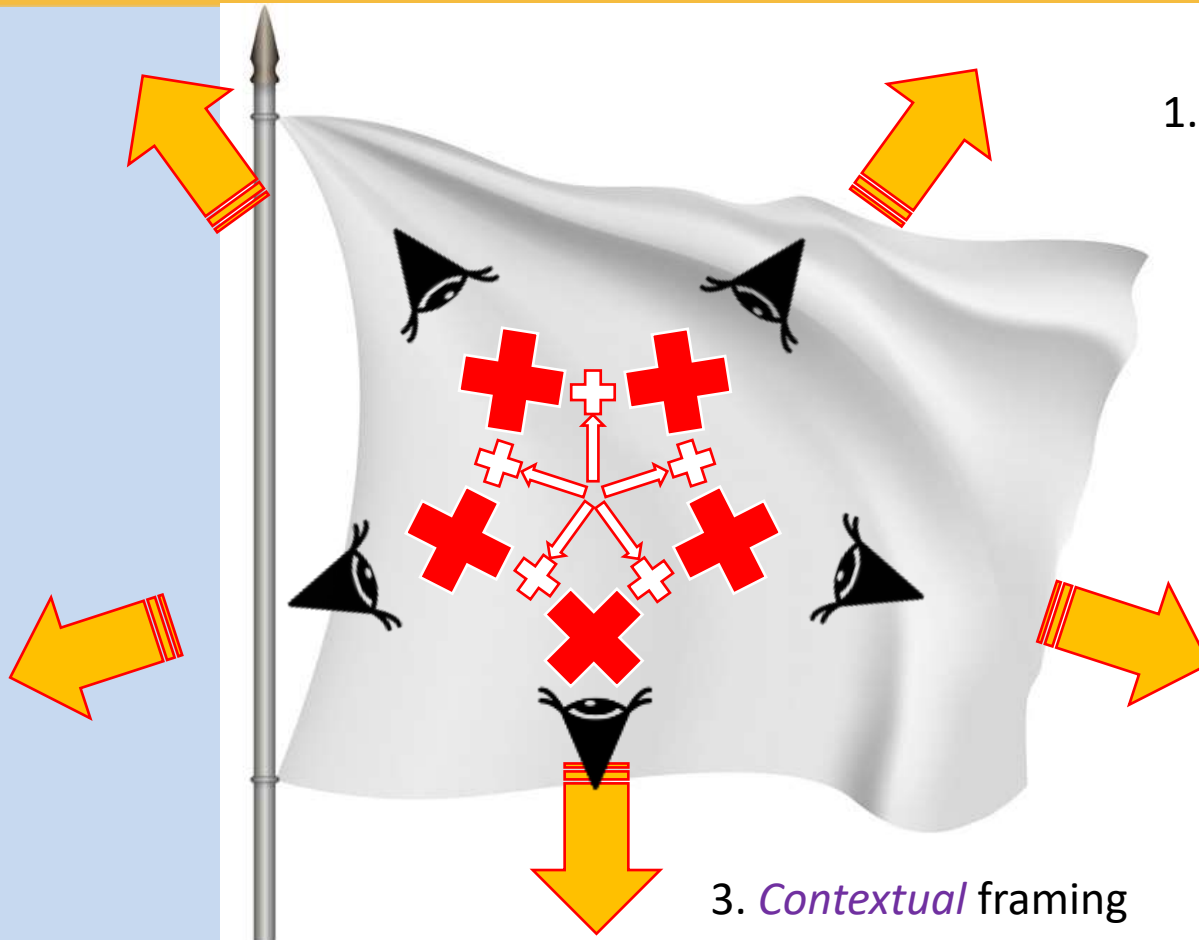
[EU Twinning in Science-Business links](#)



How to prepare yourself? - increase *your* capacity to *give*

5. *Resulting* outreach

4. *Products'* outflow



1. *Conceptual* inflow

NOT only repeat how great you are in your own view, but perceive how useful and attractive you are in your partners' views!

2. *Methodical* soundness

3. *Contextual* framing

Interactive work ②:

How do these 5 mindsets translate into finding suitable targets, partners, and institutions?

for a concrete team that you envisage
(10 min.)


⑥

Section ③:

How to give relevant recommendations to scientists?

Gilbert Ahamer, Twinning component leader

Our meta-flag means:

- The procedures of network-building
- The 3 circles of equilibrium & harmony
- Created by 3 constructions of consensus
- Using this logo: 

Therefore, your task of creating a network translates to creating equilibrium on all levels from all outside perspectives!

=> Switch perceptions: from *your* perceptions towards your *partners'* perceptions!



The dimensions of how others may see you

Some examples:

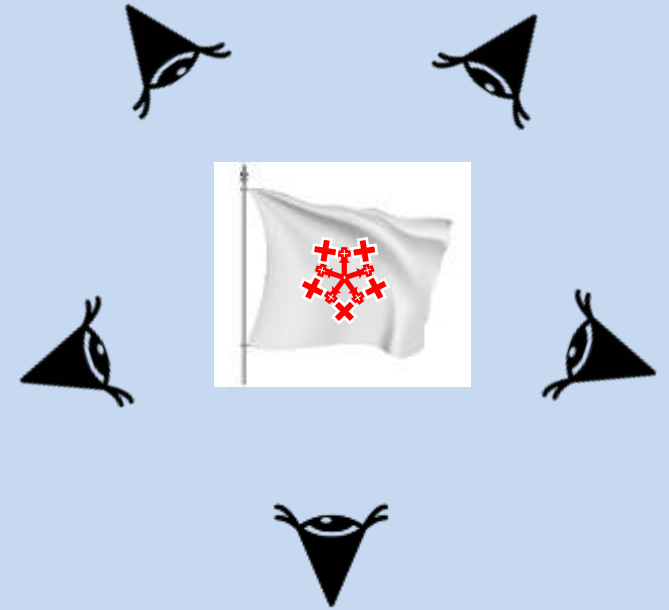
1. You provide a method
2. You provide data
3. You come from a “useful” country
4. Your institution is well-known
5. Within the institutional landscape, you represent a missing role
6. e.g.: “important names” need “diligent workers”



Let us slowly approach this huge task: optimise how *others* see *you & your team*

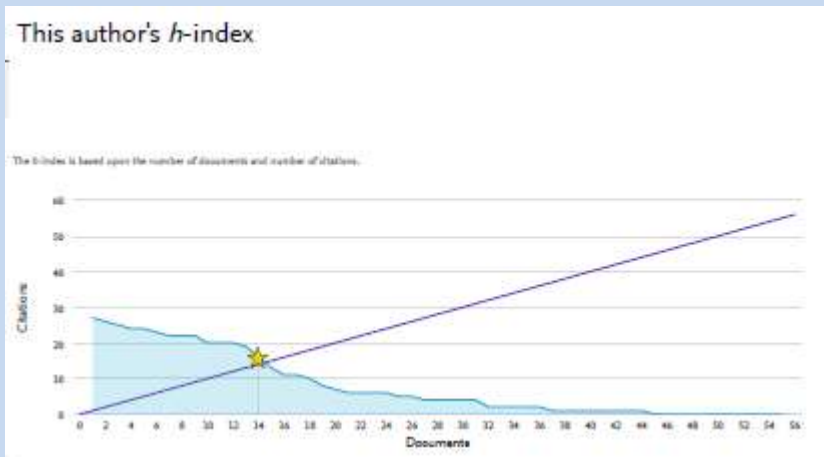
One option out of many – widely accepted:

1. Search for “**objective**” indicators of your “qualities” (if ever possible)
2. Try to use internationally recognised journals to document your achievements
3. Select form Scopus-listed journals ...
4. ... or, if achievable, from WoS-listed journals
5. From your universities' premises – or via a VPN (virtual private network),
6. Use these sites: scopus.com, webofknowledge.com, webofscience.com



Example of Scopus

- Scopus: Includes the “best” 20,000 journals worldwide
- You may link to the pdf ...
- ... in case your uni bought the journal
- Hirsch’s h factor: n public. with n citations
- Also journals & universities have h factors



Scopus

55 document results

Search Sources Lists SciVal unikat GA

Search within results

Refine results

Limit to Exclude

Access type

Open Access (1)

Other (54)

Year

2019 (2)

2018 (4)

2017 (2)

2016 (1)

2015 (4)

View more

Author name

Ahamed, G. (55)

Kumpradit, K.A. (1)

Jekel, T. (2)

Mayen, J. (2)

Documents Secondary documents

Analyze search results

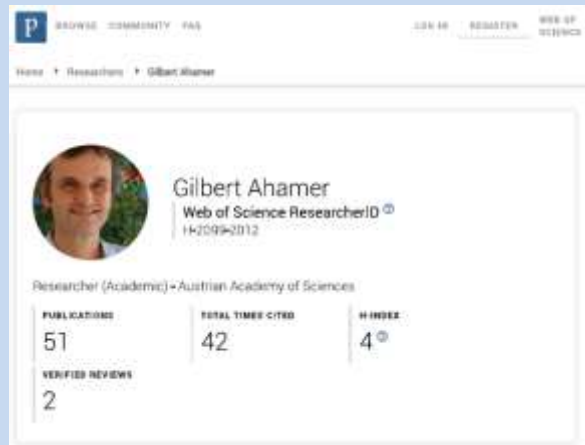
Show all abstracts Sort on Cited by (Highest)

All Expert Download View citation overview View cited by Save to list

Document title	Authors	Year	Source	Cited by
1 Web-based exchange of views enhances "Global Studies"	Ahamed, G., Kumpradit, K.A., Hohenwarter, M.	2011	Campus-Wide Information Systems 28(1), pp. 14-40	27
View abstract View at Publisher Related documents				
2 Negotiate your future: Web-based role play	Ahamed, G.	2004	Campus-Wide Information Systems 21(1), pp. 35-58	26
View abstract View at Publisher Related documents				
3 "Surfing Global Change": How didactic visions can be implemented	Ahamed, G.	2005	Campus-Wide Information Systems 22(5), pp. 298-319	25
View abstract View at Publisher Related documents				
4 Dialogic Global Studies for multicultural technology assistance	Duraković, E., Feigl, B.M., Fischer, B.M., Matzenberger, J., Ahamed, G.	2012	Multicultural Education and Technology Journal 6(4), pp. 261-286	24
View abstract View at Publisher Related documents				

Example of World of Science (WoS)

- WoS: Includes the “best” 10,000 journals worldwide
- Similar to Publons



In Scopus, you should merge your profiles

- Often, names or affiliations can be misspelled, especially with non-Latin alphabets:
- In such cases, use the “merge profiles” option

Scopus

Scopus: Access and use Support Center

Support Center > Scopus: Access and use Support Center > Using the product > [How do I use the Author Feedback Wizard?](#)

All Topics merge profiles

How do I use the Author Feedback Wizard?

Last updated on September 16, 2020

Use the Author Feedback Wizard to update the information provided on the [Scopus Author details page](#). Use the Author Feedback Wizard to:

- Set a preferred name for an author
- **Merge author profiles**
- Add and remove documents published by an author
- Update the affiliation associated with an author

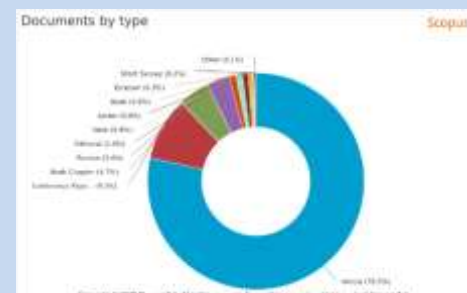
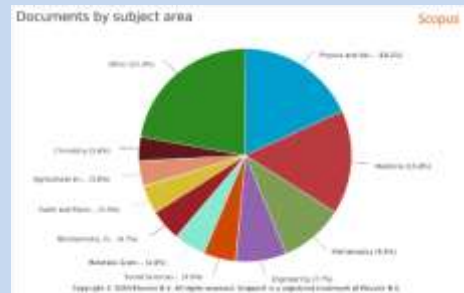
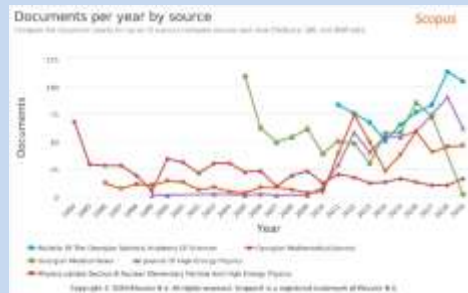
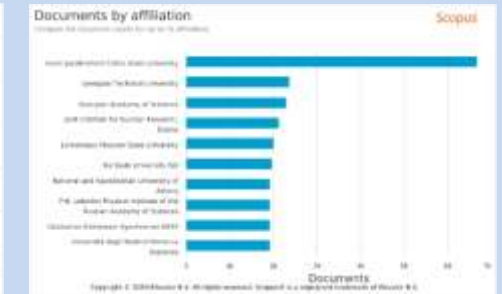
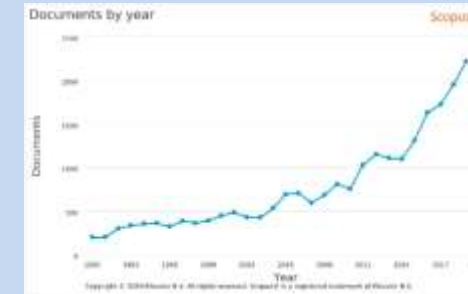
View last title	15	Merkel, Andreas	8	6	Friedrich-Alexander-Universität Erlangen-Nürnberg	Erlangen	Germany
View last title	16	Merkel, Andreas	7	3	Universität des Saarlandes	Saarbrücken	Germany
View last title	17	Merkel, Angela Merkel, A.	7	4	Akademie der Wissenschaften der DDR	Berlin	Germany

- Always, use the same spelling of institutions!
- Optimally, use the Scopus “author identifier
- and the **ORCID** identifier

In Scopus, you can group your findings along categories

If you select a journal, think of:

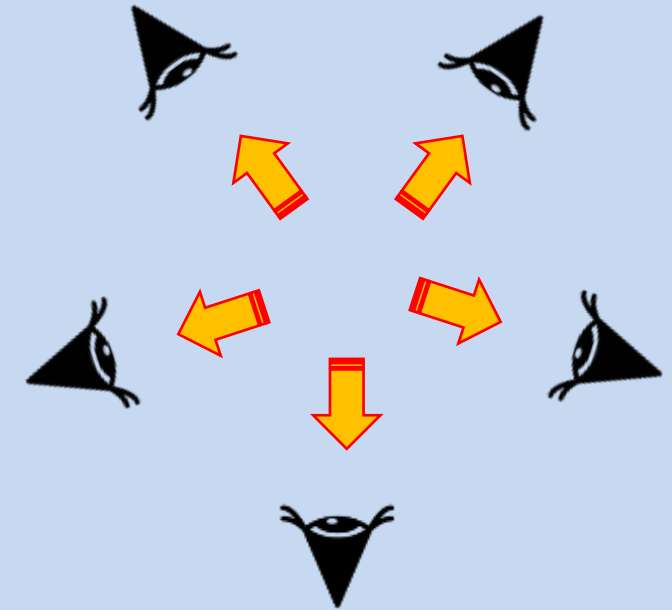
- If it has good impact factor (SJR, SNIP, etc.)
- If you can reach your target to publish in this journal
- If your received reviews have good quality – to further improve the quality of your work



- See my [analysis of globalisation journals](#)

Communicational skills *optimise how others see you*

- Communicate in smooth manner
- Leave chances for the other to “discover” you
- Focus on what you can give
- You may use the “cookbook” from an earlier Twinning workshop in November



Communication language

Use the following techniques, especially for *Lay Public*:

- Use analogies and visuals
- Use (simple) stories and build trust in you
- Focus on making the story relevant and meaningful
- Respect your audience's prior knowledge (be mindful of “talking down”)
- Address the question “so what?” early on to keep your audience interested
- Address the points that less-specialized audience members care about first, followed by the interests of the more knowledgeable audience members



Communication design

3 Models of Science Communication:

- **The Deficit Model:** This model assumes that public skepticism about science is caused by the public's lack of relevant knowledge. In this approach, scientists can remedy the “deficit” by sharing their knowledge with the public.
- **The Contextual Model:** Here, scientists put themselves in their audience's shoes. They are aware of the needs, attitudes, and existing knowledge of their different audiences and adjust their content and communication approach accordingly, e.g.:
 - Why does my audience need the information I am communicating to them?
 - What will my audience do with the information I am communicating to them?
 - How will my audience feel about my methods?
 - What is the focus of my research and how will it apply to my audience?
- **The Participation Model:** Scientists, the public, and policymakers participate equally in discussions and debates about issues in science and technology. The model variation “openness engagement” promotes public debates about potential scientific and technological developments before they occur, instead of reactive debates post-development. We encourage members of the public to learn about a scientific topic and its implications for society. These activities also strengthen relationships between scientists and the public and inspire further public participation in scientific debates.



Communication structure

3 Key Structures of Effective Communication

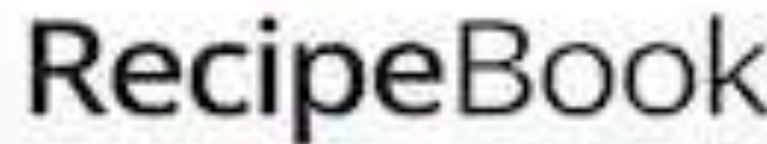
- From the Known to the Unknown. From General to Specific. From Simple to Complex.
- 7 C's of Effective Communication:
 - Courtesy, Clarity, Conciseness, Completeness, Correctness, Concreteness, Credibility.
- Top 9 Simple Principles of Effective Communication
 - Have A Goal. Listen. Adjust To Your Medium. Stay Organized. Be Persuasive. Be Clear. Less Is More. Be Curious.
- The 3 I's: issue, illustration, invitation.
- The 3 W's: What? So what? Now what?
- PSB: Problem, solution, benefit.



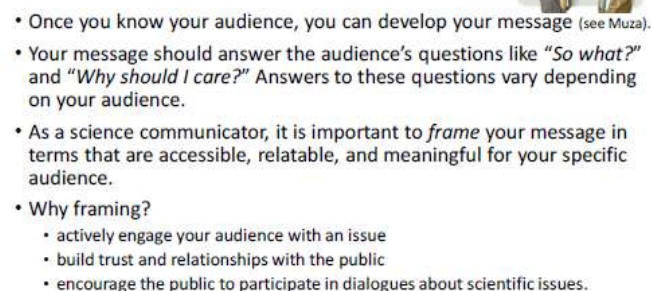


Make sure you understand what your audience is interested in and adapt your communication accordingly.

- Source: <https://agentmajeur.com/science-communication/>, <https://agentmajeur.com/humour-science-presentations/>



- Sources: General overview on methods: <https://guides.ncsl.ca.us/sciencecommunication>, <https://www.nature.com/articles/d41586-019-03880-7>, <https://www.nature.com/articles/d41586-019-03359-4>, <https://www.esch.org/science-policy/public-outreach/science-outreach-communication-solutions/best-practices-in-efforts-science-communication/>, <https://www.pnas.org/content/116/25/7670>, https://www.wisconsin.edu/wiki/Science_communication



Sources: Working with Public Information Officers by Dennis Meredith (2012); Working with Print, Broadcast, and Online Media from AAAS Annual Meeting 2012; Communicating Science Seminar, Am I Making Myself



- **Writing about science:** Use active verbs; avoid jargon, euphemisms, clichés, wordplays, and puns; use analogies and examples; only include critical details; create an outline; tell a story but stay true to the facts; spend a lot of time; revising and rewriting; cite your sources.
- **Visualizing science:** Use a consistent style and format; use colors with purpose; use high-resolution graphics; format your graphics and include labels, legends, and captions.
- **Creating a poster:** Remember that your title is your message; be intentional in your choice of colors; use high resolution visuals; use photos for the general public; use conceptual diagrams for the informed public and non-specialist scientists; use supporting visuals even if your audience is scientists in your field; use text to support your visuals; create a handout of the poster.
- **Speaking about science / presentations:** Give yourself plenty of time to prepare and practice; state your message at the beginning and end of the presentation; give your audience background on your topic; focus on the aspects that are most interesting and relevant to your audience and introduce them early on; engage your audience through questions and dialogue; explain your message and use them to support your presentation; talk about the process, not just the results; aim to use less time than you are given; leave time for questions; based on what you know about the audience, try to predict their questions and prepare answers. If you use slides: spend one to two minutes per slide; each slide should have a visual element; explain your visuals to your audience; include an outline slide.
- **Using social media:** blogs and other social media platforms such as Twitter and Facebook for a variety of purposes.

Sources: Working with Public Information Officers by Dennis Meredith (2010); Working with Print, Broadcast, and Online Media from AAAS Annual Meeting 2010; Communicating Science Seminar, An I Making Myself

Interactive work ③:

How can you support “your” teams to prepare themselves to be optimally perceived? What can they GIVE?

(10 min.)

მადლობა ყურადღებისთვის
Thank you for your cooperation!