

29-30.05.2019



V Międzynarodowa Konferencja Naukowo-Biznesowa

INŻYNIERIA PRZYSZŁOŚCI 2019

TRAINING THE

mindSET

Bartłomiej Gładysz

INNOWACYJNE
ROZWIĄZANIA
TECHNICZNE
I ORGANIZACYJNE
DLA PRZEMYSŁU

Mazowsze.
serce Polski



Partners and basic parameters



**Warsaw University
of Technology**

CESAER



Co-funded by the
Erasmus+ Programme
of the European Union



Training the mindSET -

Improving and Internationalizing Skills Trainings for Doctoral Candidates

Duration: **1.9.2018 – 31.8.2021 (36 months)**

Maximum approved overall budget: **395.149,00 EUR**

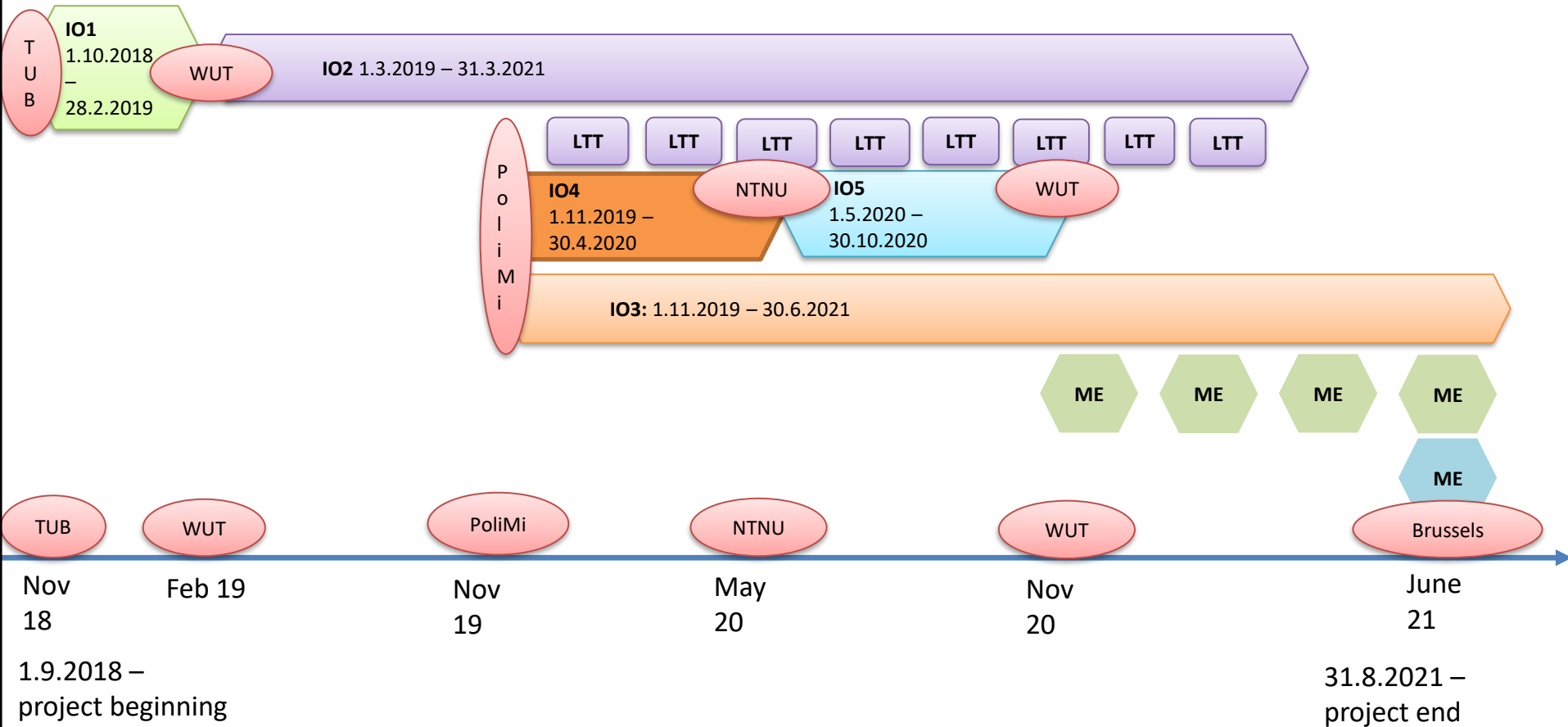
Type of funding: Erasmus+ KA 203 Strategic Partnership

Funding institution: German National Erasmus+ Agency NA DAAD

Project aims and major outputs

- Development of a common **European core curriculum in transferable skills** for doctoral training, especially designed for the **SET disciplines**, including entrepreneurial, leadership, communication and organizational skills as well as education in research ethics and good scientific practice.
- Enhancing the possibilities of **cross-national mobility** of early stage researchers, trainers and academic staff and their orientation within an international employment market.
- Contribution to a deeper and broader **Europeanization of doctoral training**, an advancement of training in transferable skills

Time schedule



Intellectual Outputs

IO1: European core curriculum in transferable skills

Scope: approx. 10 pages print + download)
Duration: 1.10.2018 – 28.2.2019; Lead: TUB

IO2: European training manual for transferable skills

Scope: approx. 150 pages, print, CD-Rom + download)
Duration: 1.3.2019 – 31.3.2021; Lead: TUB

IO3: Webinars for transferable skills

Scope: 3 webinars, min. 30 participants each; recorded as videos
Duration: 1.11.2019 – 30.6.2021; Lead: TUB

IO4: Competence assessment of transferable skills

Scope: 2-part online questionnaire (prior + after training), maybe implemented as self-assessment, peer-to-peer, facilitated by supervisor or coach for transferable skills
Duration: 1.11.2019 – 30.4.2020;
Lead: PoliMi

IO5: Coaching manual for transferable skills

Scope: approx. 30 pages, print + download
Duration: 1.5.2020 – 30.10.2020; Lead: NTNU

Project beginning
1.9.2018

Project end
31.8.2021

Learning Teaching Training activities

Modules*	Host + trainer	2nd trainer	pilot	consolidation
Acquiring third-party funds and projects/ Teaching methods	TUB TUB	NTNU WUT	Jan 2020	Sep 2020
Time and project management / Cooperation, communication and presentation	WUT WUT	PoliMi PoliMi	Mar 2020	Nov 2020
Entrepreneurial thinking/ Publication, promotion and transfer of research results	NTNU NTNU	TUB WUT	May 2020	Mar 2021
Leadership and management/ Research ethics and good scientific practice	PoliMi PoliMi	TUB NTNU	July 2020	Jan 2021

*Topics for modules to be reconfirmed

Multiplier Events

Germany

German
University
Association of
Advanced
Graduate
Training
(UniWinD)
Autumn 2020

Italy

Welcome
meeting
doctoral
candidates
region of
Milan
Nov/Dec 2020

Poland

ME organized
by WUT +
doctoral
students
board
Spring 2021

Norway

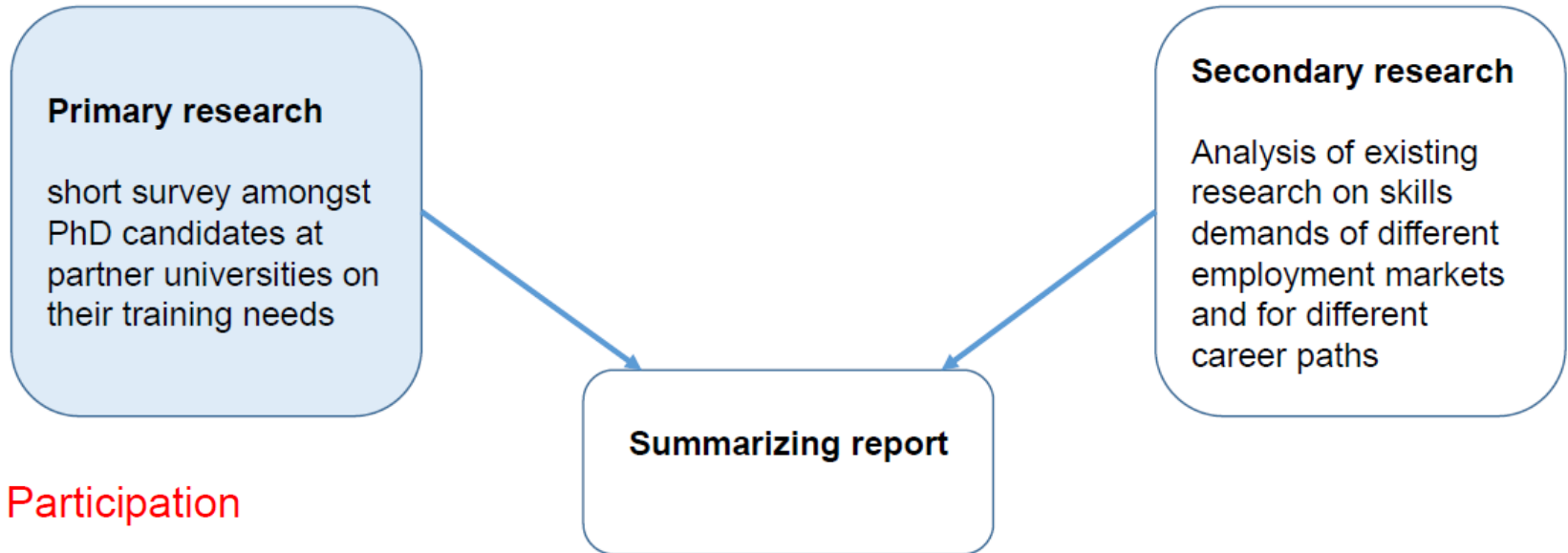
National
Research
Education
Conference
June 2021

European

1 European event

CESAER/ TIME/
EUA-CDE/
EURODOC/
PRIDE
*Brussels, June
2021*

Needs analysis methodology



Survey Participation

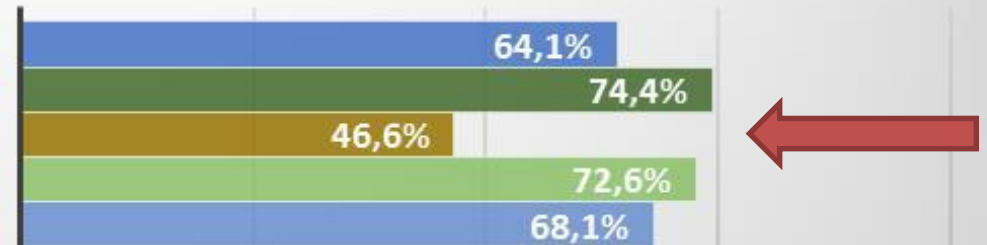
TU Berlin PhD Students:	87
NTNU PhD Students:	120
NTNU PostDoc Candidates :	27
WUT PhD Students:	62
WUT Faculty Heads:	3
PoliMi PhD Students:	164
PoliMi Faculty Members:	97

Acquiring third-party funds and projects

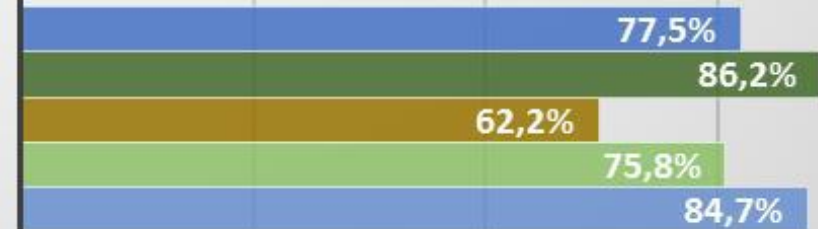
(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)

0% 25% 50% 75% 100%

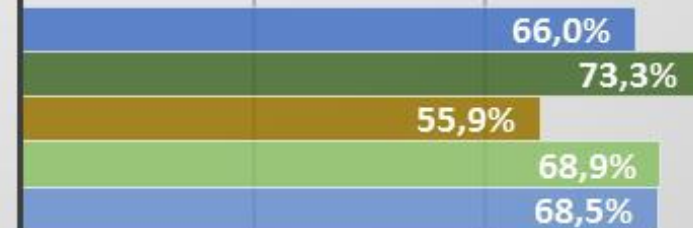
1.1 FUNDING AND RESEARCH LANDSCAPE (FUNDING LINES AND PROGRAMS; FUNDING OPPORTUNITIES OF KEY RESEARCH AND FUNDING ORGANIZATIONS ETC.)



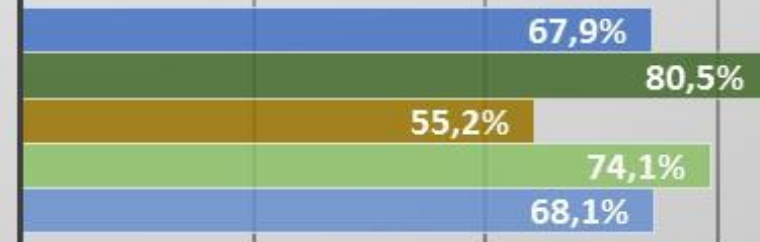
1.2 DRAFTING A PROJECT PROPOSAL



1.3 CREATING A PROJECT BUDGET



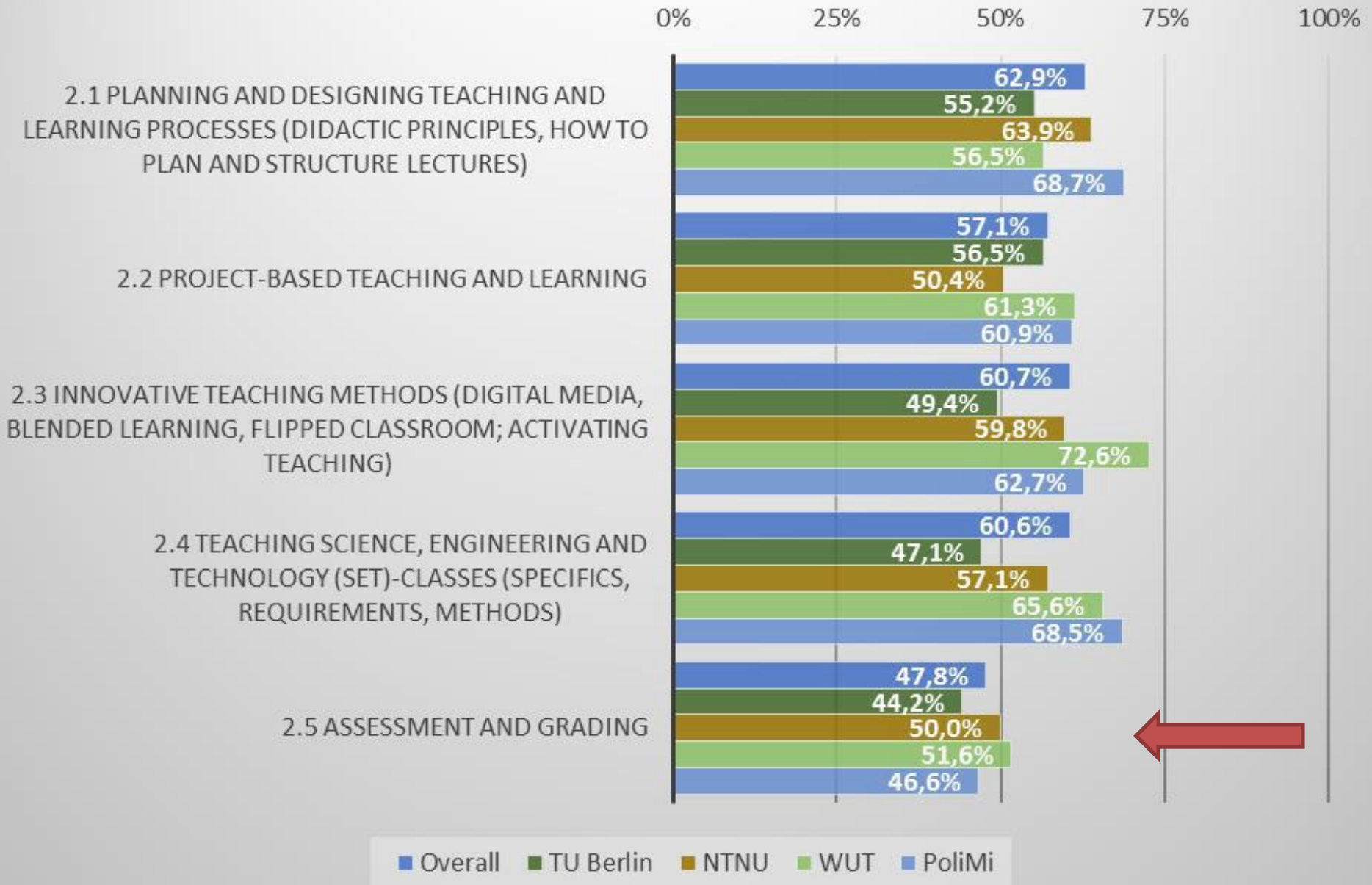
1.4 PROFESSIONAL CONCEPT DEVELOPMENT



Overall TU Berlin NTNU WUT PoliMi

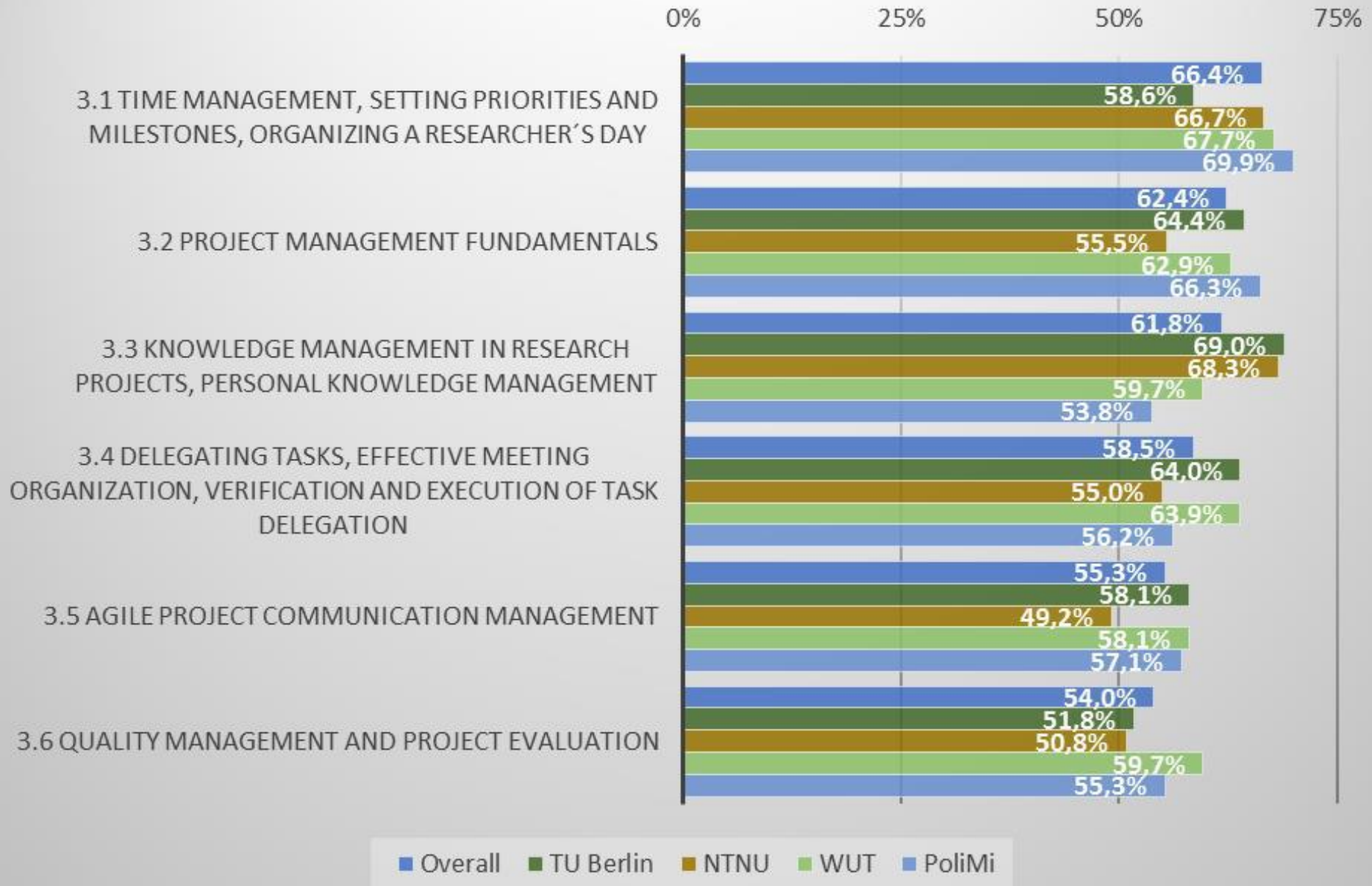
Teaching methods

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



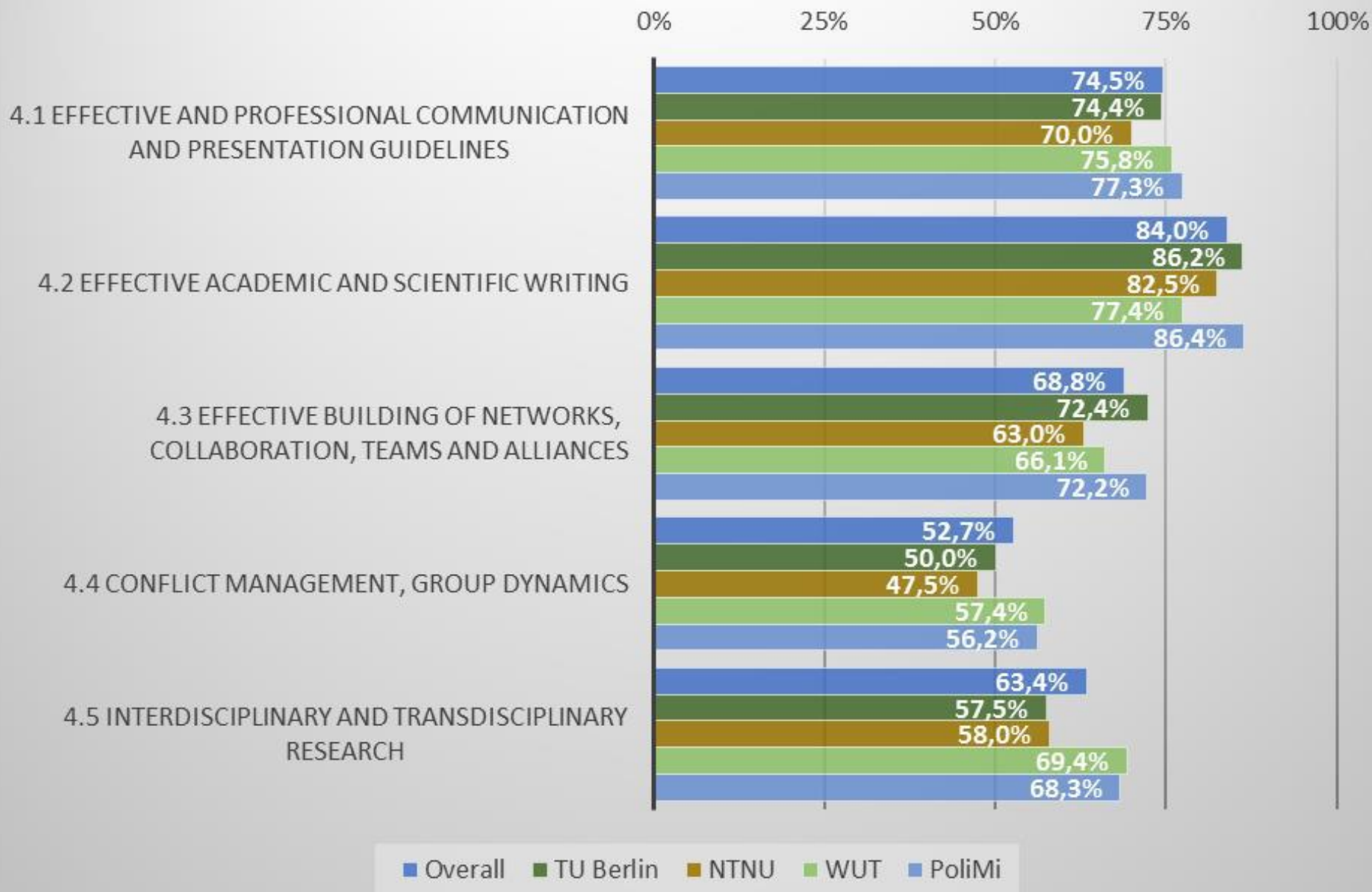
Time and project management

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



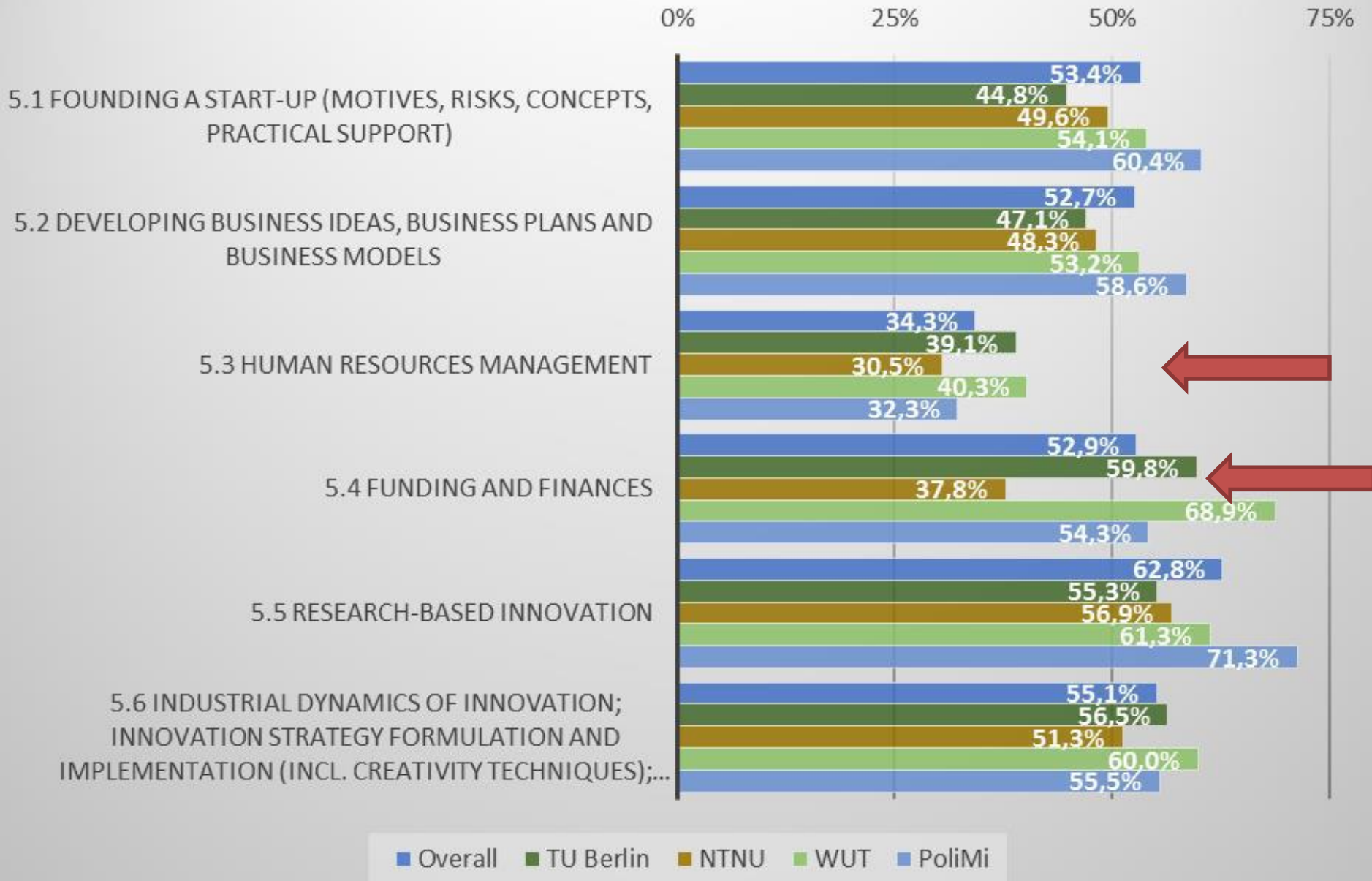
Cooperation, communication and presentation

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



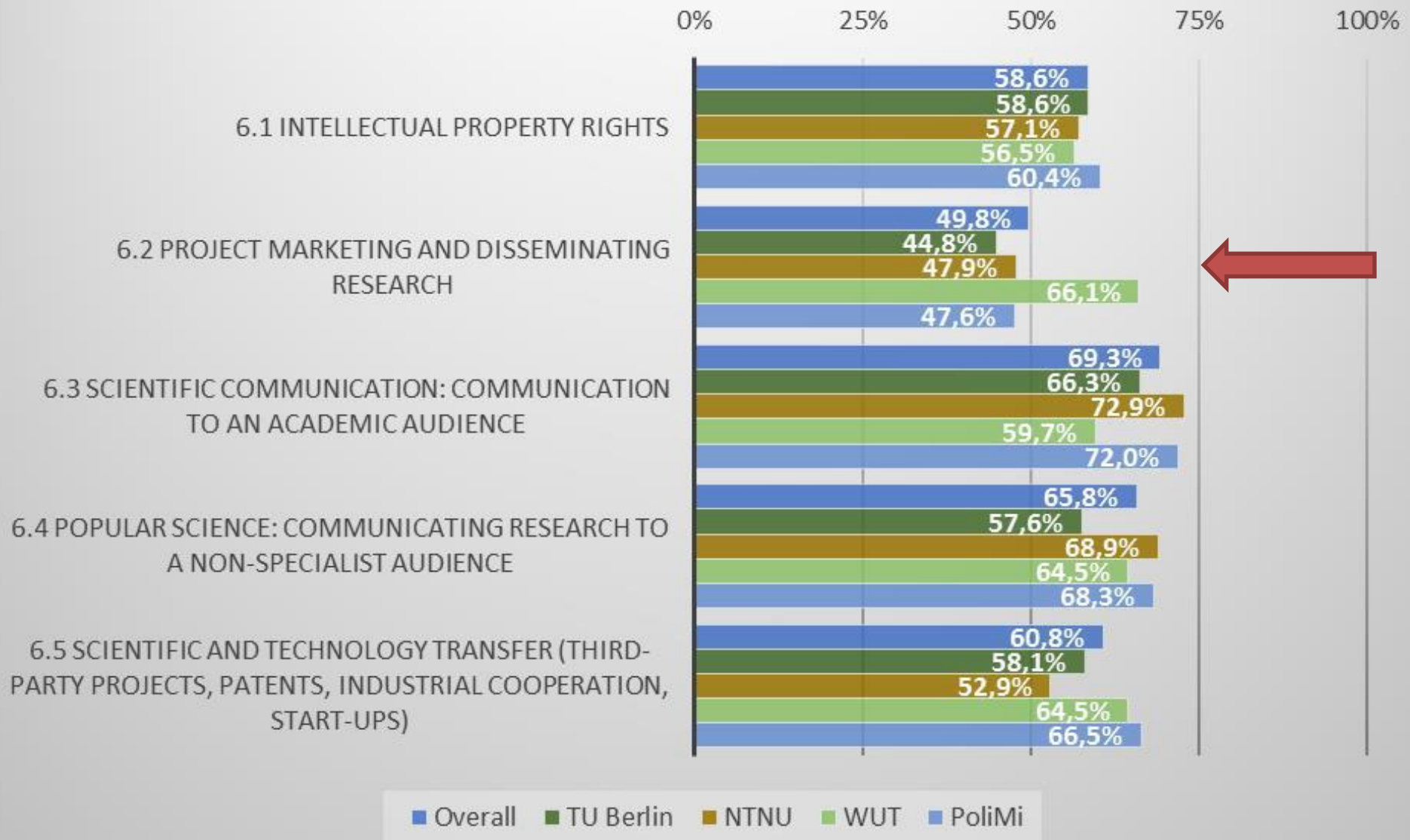
Entrepreneurial thinking

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



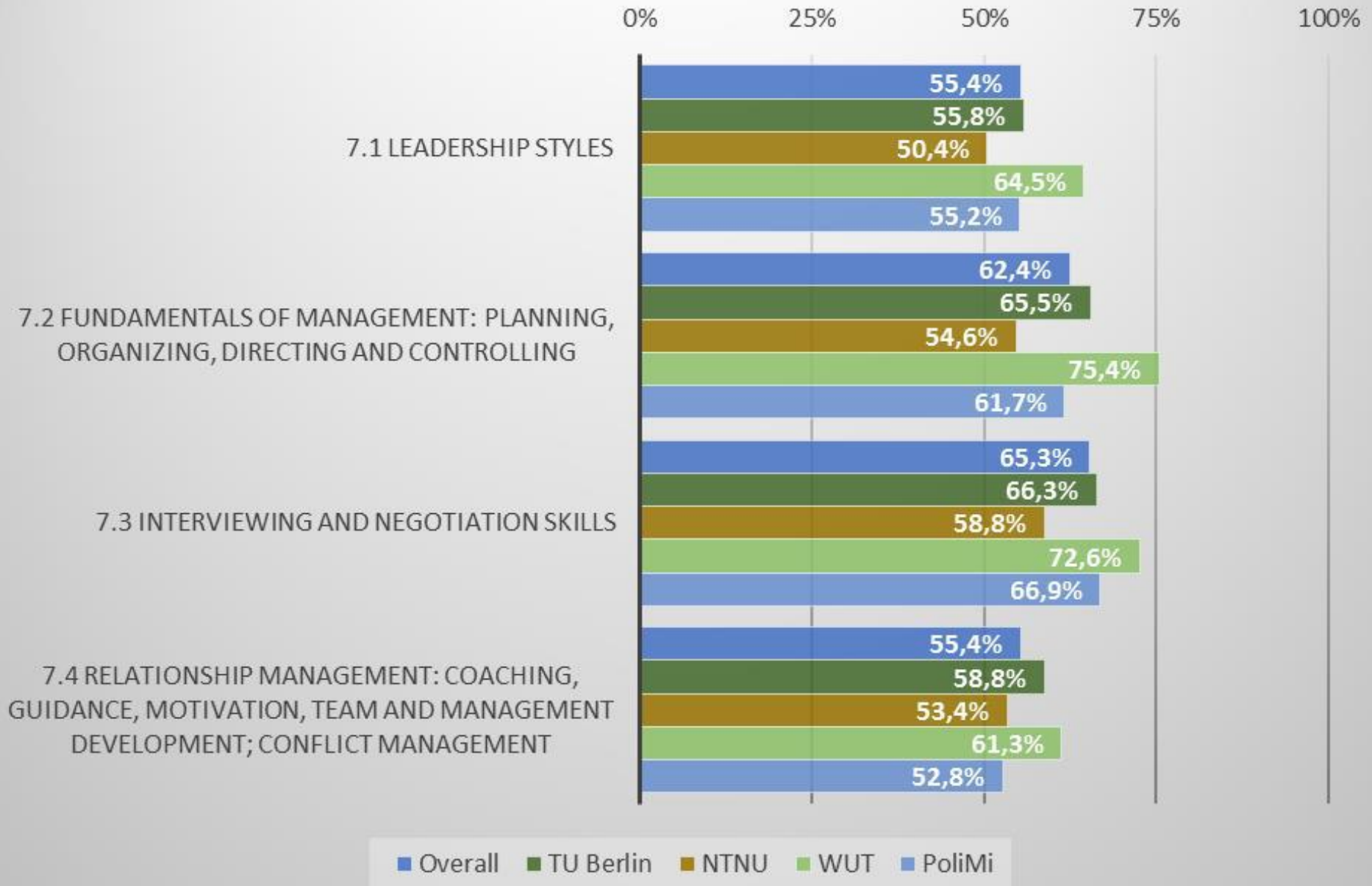
Publication, promotion and transfer of research results

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



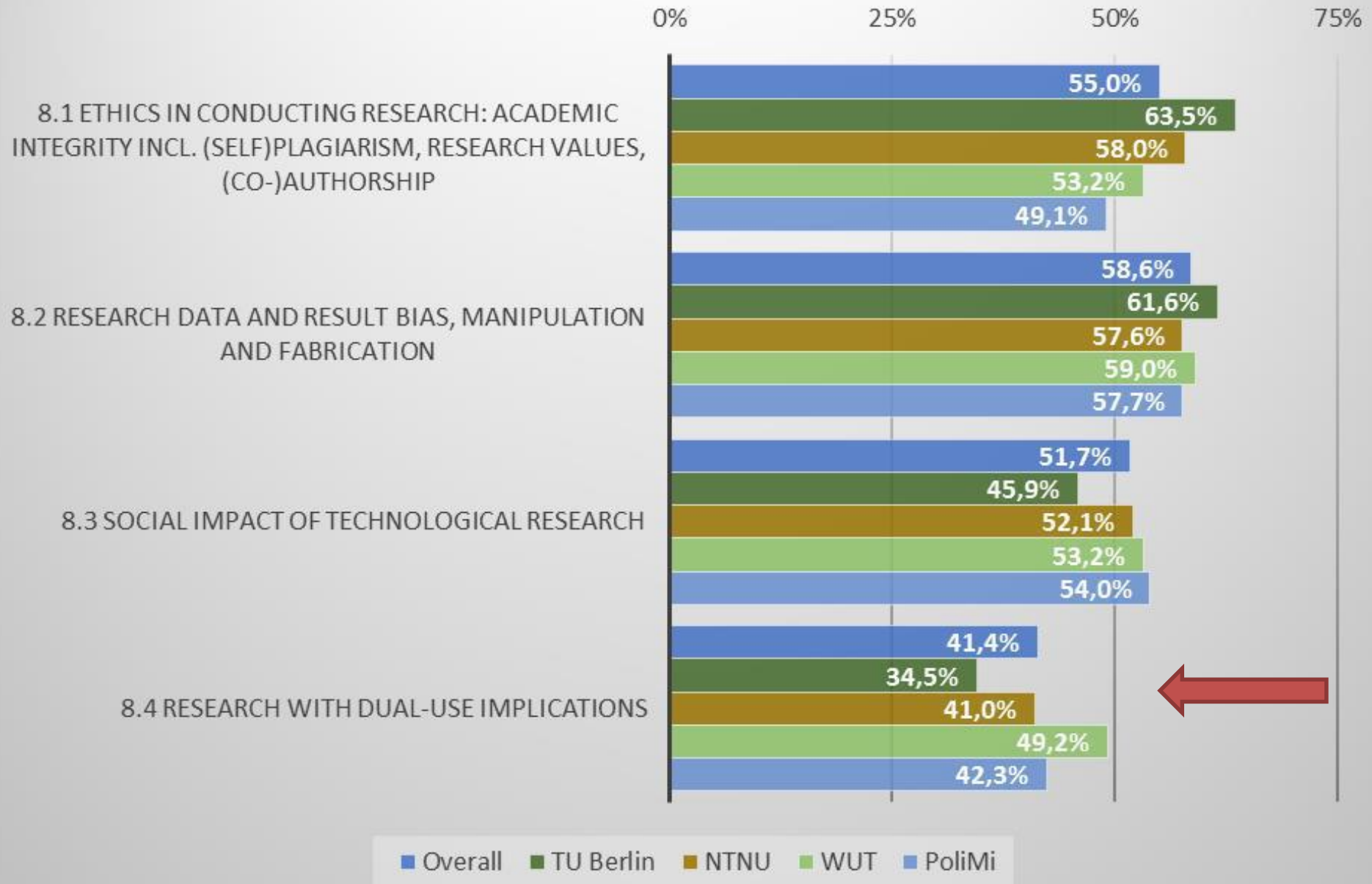
Leadership and management

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



Research ethics and good scientific practice

(Likert scale: percentages for 'I rather agree' and 'I fully agree' summed up)



Course curriculum

No.	Module title	Contents	Learning Outcomes	Teaching methods	Scope (working units à 45 min)	ECTS points (recommendations)

Test

- investigating the usability amongst the primary target group of university staff by means of a
- questionnaire and/or focus groups (3-5 relevant stakeholders) in all partner organizations (WUT)

Training manual

Course Contents

- **hands-on extensive teaching material** on course contents **ready to be implemented**
- along the 8 modules
- = **further operationalisation of the modules defined in IO1**

Implementation Aspects

- instructions on how to **prepare, implement and evaluate** the courses
- **cutting-edge training methodologies, including digital tools** such as (online) expert discussions, Adobe conferences, small video clips and flipped classrooms.

Training manual – exemplary course outline

Time	Duration (min)	Content/Topic	Objective	Teaching Method	Media
9:15-9:20	5 min	Welcome & agenda	Opening of the workshop/seminar	Presentation	
	3 min	<ul style="list-style-type: none"> Thread, workshop overview 	Participants know contents / topics		Overview flipchart
	2 min	<ul style="list-style-type: none"> Overview about how the topics are dealt with (interactive; using didactic methods) 	Participants know how the topics are dealt with		
9:20-9:35	15 min	Introductory Round	Getting to know each other	Self-presentation of participants	Questions on blackboard or flipchart
	2 min each	Name? Subject? What am I passionate about?	Participants discover similarities	Interview	
		What is (not) supposed to happen?	Participants agree on rules for working together		Concept cards
9:35-9:45	10 min	Constructive Feedback	Students get to know the criteria for constructive feedback	Input & discourse	Poster

Wydział Inżynierii Produkcji

POLITECHNIKA WARSZAWSKA



dr inż. Bartłomiej Gładysz
ADIUNKT

ul. Narbutta 86, pok. ST120
02-524 Warszawa
tel. 22 234 81 26 / kom. 692 480 236
b.gladysz@wip.pw.edu.pl / wip.pw.edu.pl

