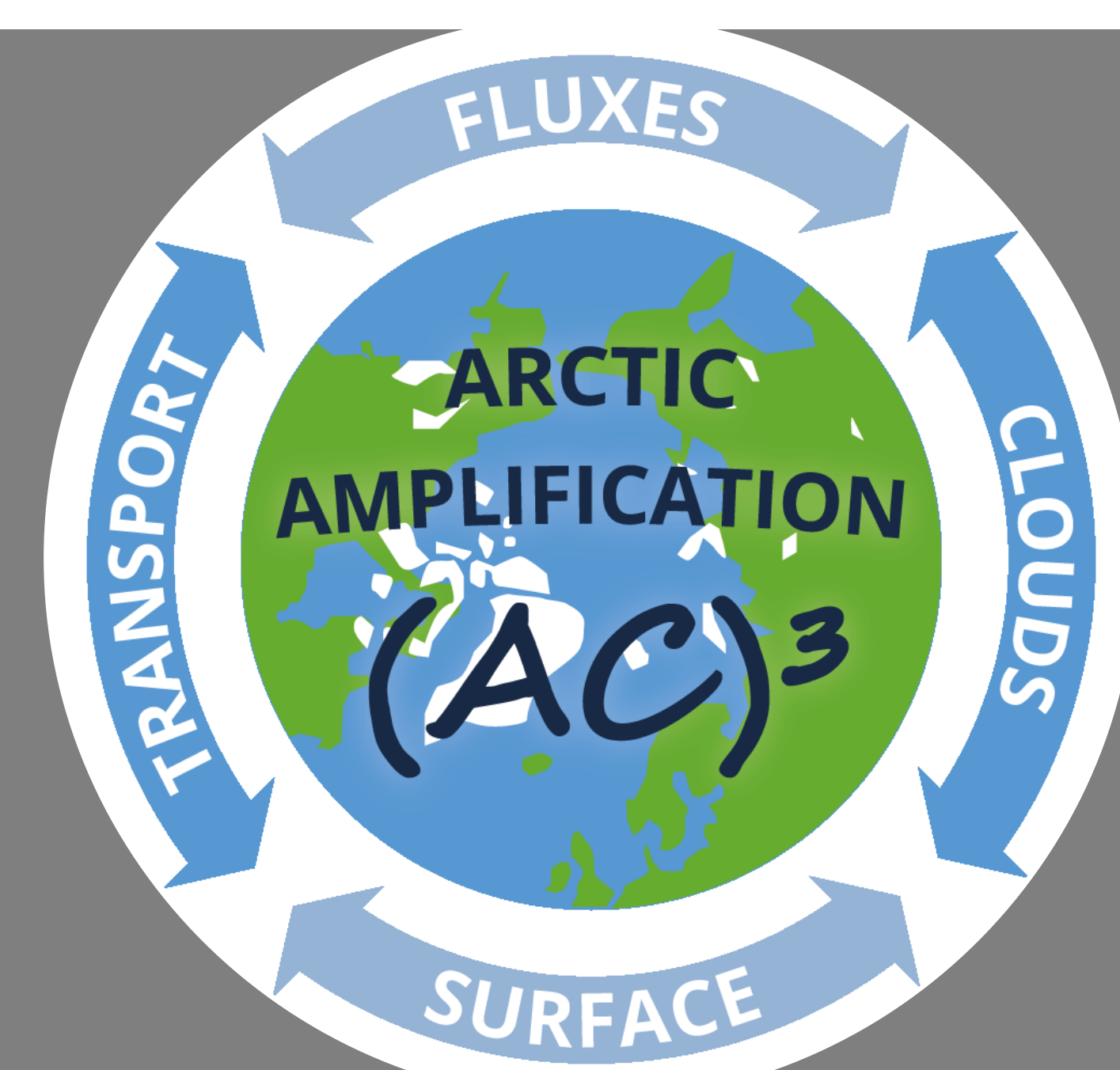


Integrated Research Training Group

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Z02/
MGK

1. Summary

Goals for training a new generation of Arctic scientists

- Stimulating environment to foster development into independent researchers
- Complement existing university programmes and consolidate supervision and mentoring concept with all partners
- Scientific training, networking activities and internal grants programmes tailored to the specific needs of doctoral candidates

2. Achievements phase I

- Access to variety of offers for **transferable skills development** by existing structured doctoral and Postdoc career programmes
- Participation of most doctoral researchers in **local graduate schools**
→ differences in supervision structure & credit systems
- Feedback from early-career researchers ($(AC)^3$)
→ lump sum funding (25% position) for **complementary activities** (Fig. 1)
→ desire for stronger networking activities



Fig. 1: Early-career researcher activities organized together with doctoral candidates (*) and local graduate school coordinators.



Fig. 2: Doctoral candidates at $(AC)^3$ Kick-off meeting, May 30th to June 1st, 2016, at Kloster Nimbschen, Grimma (Germany).



Fig. 3: Winter school on observations and modeling of high-latitude and Arctic clouds. March 19th to 25th, 2017, at Hyttiaälä (Finland).

4. Collaboration within $(AC)^3$ & support by local structures

- Collaboration with **local graduate schools** for efficient use of resources
→ workshop organization, accounting and credit systems
- Close interaction with the **crosscutting activities** for scientific training by PIs and Mercator fellows (Shupe, Gorodetskaya)



Fig. 4: Graduate School network: $(AC)^3$ doctoral candidate can make use of university wide structures (RAL, BYRD and AMC) and more specialized graduate schools. The IRTG will collaborate with them to optimise scientific training and courses. IRTG management will be integrated in GSGS structures.

Central task

Optimum support for early-career researchers through an Integrated Research Training Group within $(AC)^3$ and within local Graduate Schools at host universities

3. Research plan phase II

Concept

- High quality **supervision** by doctoral committee fostering networking
- **Progress monitoring** of doctoral candidates

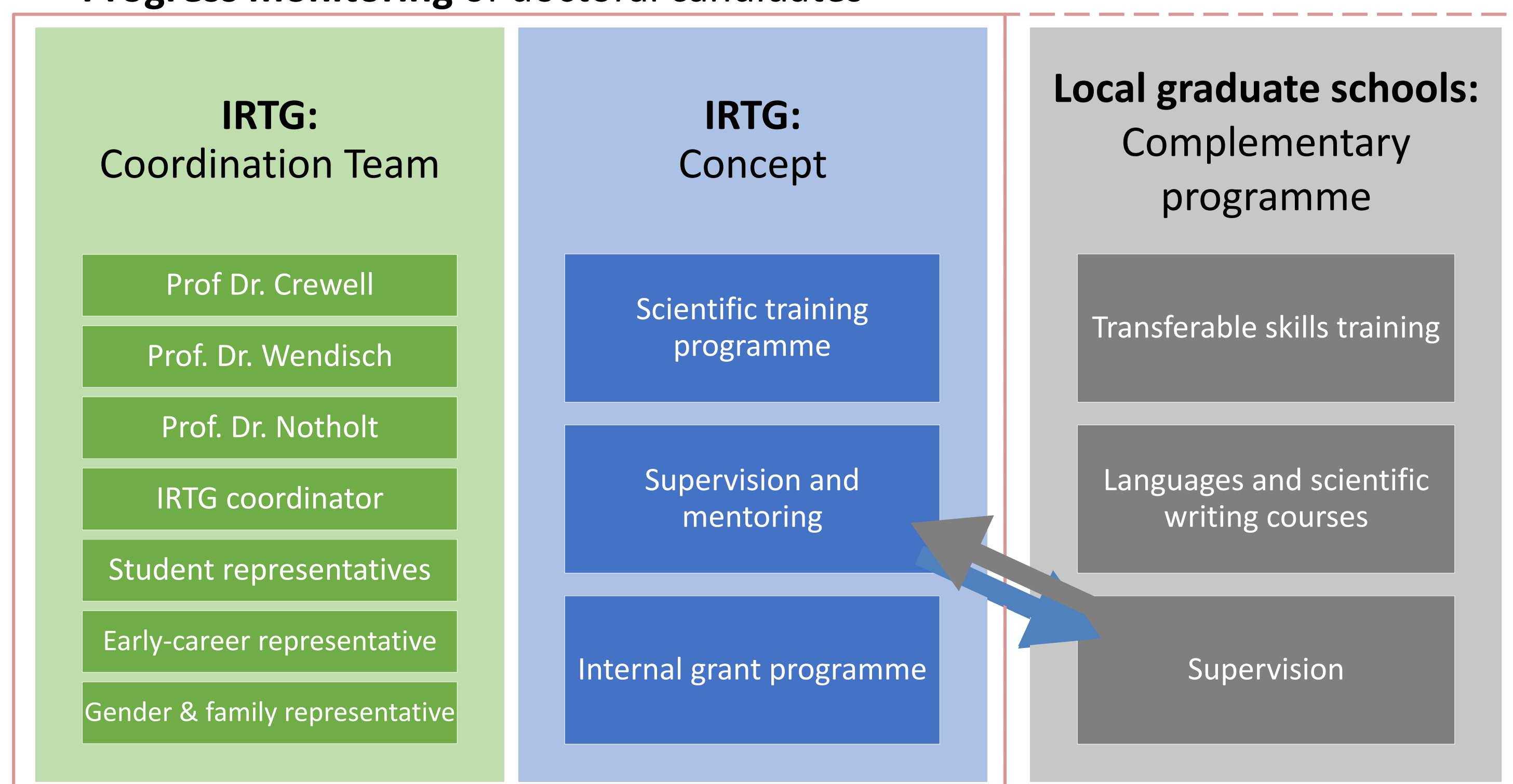


Fig. 5: Structure of the $(AC)^3$ IRTG including the IRTG coordination team and existing structures.

Scientific training programme

- **Curriculum** with lectures, exercises, project-specific workshops and training
- **Retreats**: annual retreats connected with biannual $(AC)^3$ meetings
- **Spring and fall schools**: in fall 2021 and spring 2023 in cooperation with international community

Internal grants programme and public outreach

- **Incoming grants** for guest scientists: doctoral candidates can propose to invite internationally distinguished guest scientists
- **Outgoing grants** for IRTG members for short-term stays abroad to visit an international (or national) laboratory
- **Outreach activities**: each member shall be involved in public outreach activities

Management

- IRTG office will keep track of **doctoral candidates' progress** making use of GSGS **data base management system**
- IRTG will issue $(AC)^3$ **certificate** after successful completion
- IRTG will serve as **point of contact for doctoral candidates and information desk** for interested master students and postdoctoral researchers

Transcript of Records - GSGS Database				Reports	
Last name	Radovan	Superv. Agreement	27/06/2016	Latest Transcript	16/08/2019
First name	Ana	Memb. status	current	Other GS	
Institute	GeoMet-UoC	E-mail	aradovan@uni-koeln.de		
Advisor	Crewell	Remarks on database			
Project start	15/04/2016				
Project end	31/12/2019	GSGS to check			
member since	19/04/2016				
GSGS Points collected:				GSGS point reference date: 19/04/2016	
Date	Cat.No	Activity Description	Details	Remarks	GSGS Points
Training					
16/12/2016	2.21	Technical/methods training:	2.5-day workshop "Getting Started" TR172 (AC)3, Cologne		5
07/03/2017	2.2	Presentation/ teaching techniques / rhetorics:	1-day GSGS workshop Presentation Skills (Jill Wolff)		2.5
29/11/2017	2.10	Other transferable skills training activities:	1.5-day (AC)3 PhD Workshop: Improvisation instead of irritation, Dr Ben Hartwig, Neuroplay		3

Fig. 6: Example: Transcript of records for doctoral candidate from GSGS-Database (Graduate School of Geosciences at University of Cologne).