



2ND VIPR ANNUAL MEETING

Welcome

January 20th, 2026 | Stefan Häusler, Marina Ganeva | JCNS

Organizational notes

- Wifi password: individual
- Check out time on Wednesday: 7:00-09:00
- Breakfast, lunch, dinner — in the restaurant
- In the evening: if you take drinks in the bar, write it down in the provided form.
- Quiet time from 22:00.

Context

- VIPR annual meeting at a specific point in the project lifecycle
- Close to project completion, while opening the discussion on what comes next

Where We Are

- Project start: March 2023
- Project duration: 36 months
- **Current status: Project Month 34**

VIPR is entering its final phase.

Meeting goals

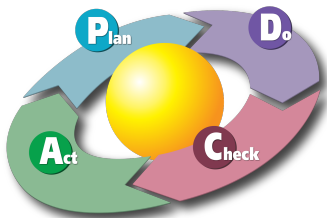
From MVP to Consolidation

■ Last year

- Focus on defining and delivering a Minimal Viable Product (MVP)
- Form task-force groups to bring project forward

■ This year

- Get a fair overview on the present state of the project
- Focus on scientific perspective, consolidation and robustness



A DFG Perspective on the Status Reports

- **Open, well-defined research questions** emerging from existing results (VIPR)
- **Methodologically consolidated approaches**, beyond exploratory MVP
- **Robust and credible collaborations** with clear scientific roles
- A **coherent research narrative**, not a collection of work packages

Looking Ahead

14:00	Status reports (S1) <i>Auditorium, Evangelische Akademie Tutzing</i> 13:30 - 14:50
15:00	DFG: Research group <i>Auditorium, Evangelische Akademie Tutzing</i> 14:50 - 15:30
	Coffee <i>Auditorium, Evangelische Akademie Tutzing</i> 15:30 - 16:00
16:00	Status reports (S2) <i>Auditorium, Evangelische Akademie Tutzing</i> 16:00 - 17:30
17:00	DFG: Lightning talks about use cases <i>Auditorium, Evangelische Akademie Tutzing</i> 17:30 - 18:00

09:00	DFG: Proposal writing <i>Auditorium, Evangelische Akademie Tutzing</i> 09:00 - 10:00
10:00	Status report (S3) <i>Auditorium, Evangelische Akademie Tutzing</i> 10:00 - 10:30
	Coffee <i>Auditorium, Evangelische Akademie Tutzing</i> 10:30 - 11:00
11:00	Wrap up & next steps <i>Auditorium, Evangelische Akademie Tutzing</i> 11:00 - 12:30
12:00	

Important links

- **Notes about the DFG FOR proposal:**

<https://iffcloud.fz-juelich.de/s/T6Z87fWJY78nX3q>

- **Draft proposal with notes:**

<https://iffcloud.fz-juelich.de/s/FqP5nP7k9CFGAwk>

- **MAIA proposal:**

<https://iffcloud.fz-juelich.de/s/7iKKm8XQxGHBp5D>

- **DFG documents:**

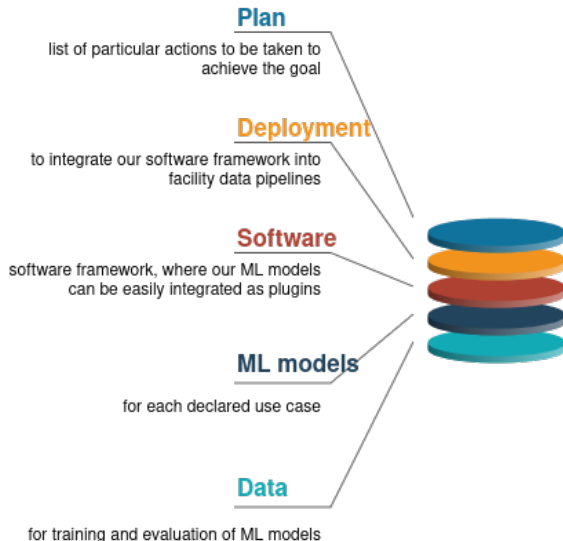
<https://iffcloud.fz-juelich.de/f/55390392>

Status reports

Stakeholders



How to make them happy?



Gap analysis — December 2024

Data

- Upload all available annotated data to VIPR HIFIS storage
- Simulated neutron reflectivity data
- Further declared use cases: Ptychography
- Annotated experimental data

ML Models

- Feature extraction

Software

- SaaS workflow on a cluster
- Implementation of specific use cases

Deployment

- Requirement analysis
- Integration in existing frameworks

Milestones

WP	Aufgabe	Start	Ende	Dauer	Phase I			Phase II						Phase III						Phase IV																
					2022			2023						2024						2025																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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	6.2	13	36	24																																
7	7.1	1	36	36																																
	7.2	25	36	12																																

Ende des Projektes

Gap analysis — Current

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- Annotated experimental data

ML Models

- Feature extraction
- Robustness**
- explainability, visualization**

Software

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- Implementation of specific use cases

Deployment

- Requirement analysis
- Integration in existing frameworks
- Containerization & edge devices**

Quality assurance

- UI, functional and performance tests**

Use in research institutions

- Deployment strategy, integration**

Knowledge transfer

- Documentation, white paper**

FZJ: Neutron reflectometry

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ML models & software implementation

Mykhailo Levytskyi