PSI IT – 3rd IT Quarterly Info 08/2023



Time	Торіс	Responsible
09.00 - 09.10	Welcome & General Update	Ronny Peterhans
09.10-09.35	Information / Update AIT	Ronny Peterhans
09.35 - 10.05	5 Years with SCRUM – an Experience Report	Rico Besson
10.05 - 10.40	Break (with coffee and croissants)	Tanja Wagner
10.40 - 11.00	PM@PSI & ePPM Platform	Alexander Koschik, Dario Veghini
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11.30 - 11.45	Status Report RISE-IT – ETH R esearch Institutes looking for S ynergies E valuation of IT Services	Ronny Peterhans
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Registration process via Indico

- Indico is an established standard platform at PSI for managing events
- The mindset is, only those who participate have to register for the event (participation is mandatory for AIT employees) and in case of later non-participation, they also have to cancel their registration.
 - Planning basis for catering
 - Those who cannot come do not have to do anything
 - The changeover took place in parallel operation, so that the original appointment blocker was still available in Outlook
- We pass on feedback on functionality to Application Management
 - Error with calendar entry and reply
 - Language DE
- The mandatory query on topic contributions was deliberate in order to get results



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General Update – DIRK (Federal Gov)

• On 2 June, the Swiss Roadmap for Research Infrastructures 2023 was published, presenting new national infrastructure projects that the universities and the ETH Domain intend to implement as a priority in the years 2025-2028, such as the HIPA upgrade project IMPACT (as well as SDSC+, EM-Frontiers).

https://www.sbfi.admin.ch/sbfi/de/home/forschung-und-

innovation/forschung-und-innovation-in-der-schweiz/schweizer-

roadmap-fuer-forschungsinfrastrukturen.html



General Update – DIRK (Federal Gov)

Various parliamentary motions urge the Federal Council to answer questions regarding the ERI funding framework and Horizon Europe, for example: (i) "Verhinderung einer Stagnation bei den Investitionen in Bildung, Forschung und Innovation; Interpellation (23.3690) von Nationalrätin Judith Bellaiche (GLP)" (new, not yet answered), Submitted 14 June 2023, https://www.parlament.ch/de/ratsbetrieb/suche-curia-vista/geschaeft?AffairId=20233690 (ii) "Horizon 2021-2027 and non-association of Switzerland. Supplement procedures to safeguard research and innovation in Switzerland" NR F.Fivaz (Green Party of Switzerland), the National Council adopted this proposal by 117 votes to 65 with 5 abstentions. The Federal Council had recommended that the motion be rejected. The matter now goes to the Council of States. https://www.parlament.ch/de/ratsbetrieb/suche-curia-vista/geschaeft?AffairId=20233690

An overview of political issues affecting the HERI sector can be found here <u>https://www.netzwerk-future.ch/index.php?p=parlamentarische-geschaefte</u> with the option of subscribing to newsmail.



General Update – DIRK (External)

- The board of directors of Zwilag Zwischenlager Würenlingen AG (Zwilag) has appointed Bruno Ulrich as its new managing director. He succeeds Ronald Rieck. <u>https://www.zwilag.ch/upload/cms/user/20230614_MM_Ulrich_DEFINITIV1.pdf</u>
- The Swiss Academies of Arts and Sciences are launching the National Open Research Data Prize (ORD Prize). This new prize is intended to recognise researchers for innovative practices in this area and aims to drive the shift towards open research practices. In 2023, the theme of the National ORD Prize is "Reusing Research Data". Applications are open until 31 August 2023.



General Update – DIRK (ETH Domain)

- On 24 May 2023, the Federal Council elected Pascale Bruderer as Vice-President of the ETH Board. She will take office on 1 January 2024, replacing the current Vice-President of the ETH Board, Barbara Haering, who will retire at the end of 2023.
 https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-95393.html
- At its meeting on 24/25 May, the ETH Board appointed the following PSI employees as professors:
 - Christian Wäckerlin (Project Leader in the Molecular Nanoscience Group, PSD) to Assistant Professor of Physics at EPFL (SNSF Eccellenza Professorial Fellowship). He will carry out his project at PSI.
 - Cristina Müller (Group Leader Radionuclide Chemistry, BIO) appointed Titular Professor at ETH Zurich (Dept. Chemistry and Applied Biosciences)

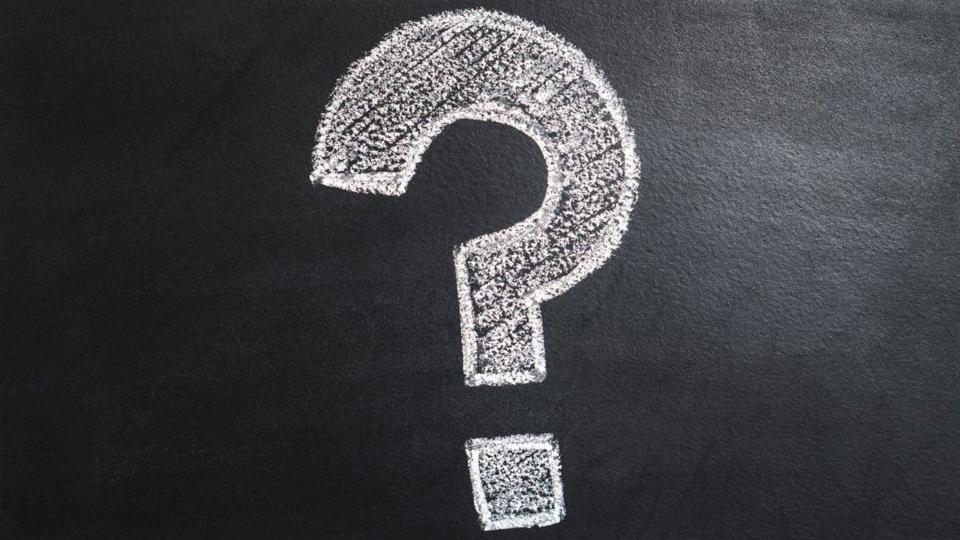


General Update – DIRK (ETH Domain)

• By releasing minimal reserves of the ETH Board, the budgets of the institutions can probably be relieved by a further 0.5% (12 MCHF) in 2024. However, the budget outlook remains far below the additional costs due to inflation and the salary measures, which are not compensated by the Confederation. The PSI must therefore adhere to the agreed savings measures for 2024.



- On 23 May, the **annual meeting of the directorates of the four research institutes took** place at Eawag. The progress of the **ENRICH** project was presented, a contract for the future joint 4RI education centre (lead campus) was signed and the structure of the ETH Domain was discussed. The PSI was represented by the Director and the Division Heads Peter Allenspach, Alex Amato and Andreas Pautz.
- The PSI 2-day retreat will take place in Ittingen from 4-5 September 2023 (participants: all DIR, BL, LL/AL). The topics to be discussed include strategic developments at PSI and in the ETH Domain, PSI development plan 2025-2028, employee survey 2019 review/measures and outlook on the planned survey of 2024.
- The 2nd PSI Leadership Day took place on the afternoon of 6 June. The 5-hour event is important for PSI in view of the upcoming challenges regarding the budget and major projects and to promote the very important close cooperation between our various scientific, technical and administrative units. With around 250 participants, the various disciplines were well represented.





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Information Head AIT (1/3)

- General Information
 - AARC TREE EU-project request approved
 - Authentication and Authorisation for Research Collaboration Technical Revision to Enhance Effectiveness
 - **CobIT** Controls for ServiceNow released in PB-9540-682/3
 - New composition of IT apprentices
 - 1x Application Developer EFZ (instead of 2)
 - 1x Platform Developer EFZ
 - 1x ICT Specialist EFZ (ICT Fachmann-/frau) (new)



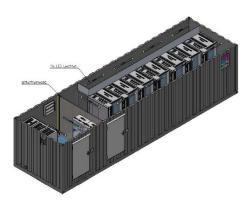
Information Head AIT (2/3)

- General Information
 - ITSM Workshop 2023 Process improvements triggered for
 - Changemanagement
 - Identity & Access Management (IAM)
 - Knowledgebase Management
 - Incident Management
 - Demand Management
 - Kick-off ACE AIT-Controls Exchange to strengthen the collaboration
 - SWITCH new president of the foundation from 01.01.2024 Alexandre Gachet (Uni Fribourg); Vice President Thomas Sutter (Uni Zurich)
 - I will stay the representative of the 4 RI's of the ETH domain

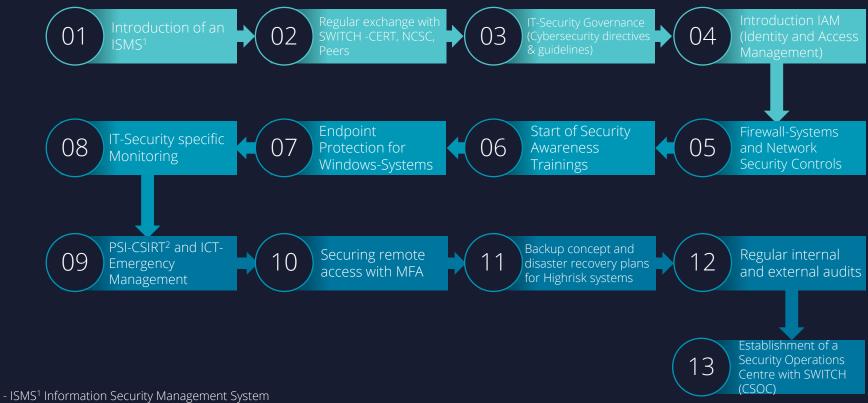


Information Head AIT (3/3)

- Projects (Update)
 - Datacenter-Space / Solutions like Containers will be checked
 - CSCS Georedundant Tape Library @PSI
 - Gitlab Roadmap
 - UCaaS (Unified Communication as a Service Replacement DECT telephony)
 - Inhouse Mobile
 - Teams Rollout (VC & chat for everyone, telephony along the rollout plan)
 - PM@PSI Pilot phase
 - ETH Research Institutes looking for Synergies Evaluation of IT Services (RISE-IT)
 - Security Measures
 - MFA Fast-Track Introduction (16.06.2023)
 - Cyber Security Program GUARDIANS (see next slides)
 - and many, many more



Implemented Cyber Security Measures PSI



⁻ CSIRT² Cyber Security Incident Response Team



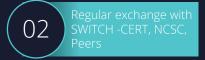
MetaCompliance Phish Reporting Outlook Plug-in

Metacompliance Phish Report Plugin

Here is the latest version of the instructions for using the Phishing Report button:



https://psi.service-now.com/now/nav/ui/classic/params/target/kb_view.do%3Fsys_kb_id%3D05f625ed87f875100a9131940cbb3556



https://ITSec4RI.ch

- FFI-Empa eawag

2

HOME CYBER SECURITY ÜBER UNS MISSION GREMIUM LINKS



TSec4RI VIEW CYBER SECURITY FOR THE RESEARCH INSTITUTES WITHIN THE ETH DOMAIN. WITHIN THE ETH DOMAIN.

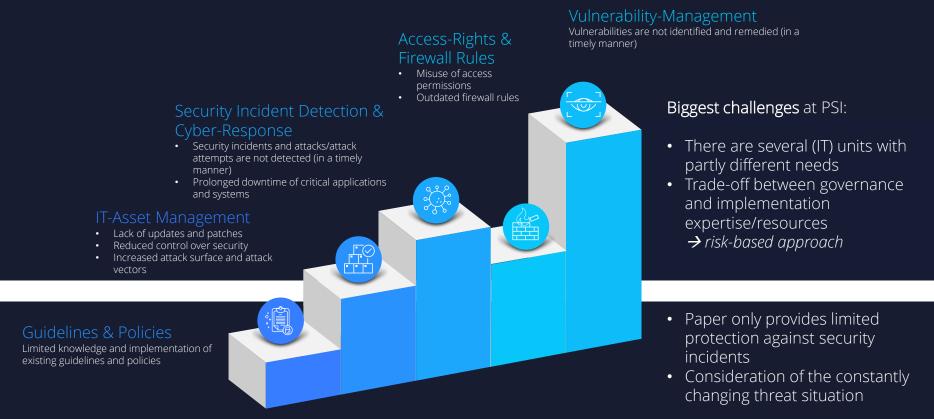
Cyber Security Protect. Defend. Secure. Your Digital Fortress.



Über uns

ITsec4RI steht für den Zusammenschluss der IT-Sicherheitsverantwortlichen der vier Forschungsinstitute des ETH-Bereichs, die sich mit ihrem Wissen und ihrer Erfahrung dafür einsetzen, die digitale Welt der Forschungsinstitute sicherer zu machen und Sie in allen Fragen der Cybersicherheit unterstützen.

Risk assessment PSI internal



"GUARDIANS" - Guaranteeing Uncompromised Academic and Research Data Integrity And Network Security

()1



05

04

5

03

Generally a risk-based approach!

Ongoing re-prioritization based on

02

 \bigcap_{i}

changing risks

DETECT

- Security monitoring tools
- Intrusion detection systems and protocol analysis
- Malware detection
- Incident response procedures (PSI-CSIRT)
- Ongoing vulnerability
 assessments and penetration
 tests

Community-Security-Operations-Center

RECOVER

- Backup- and Disaster-Recovery-Plan
- Tested backup and recovery procedures
- Checks after an incident

RESPOND

- ICT Emergency Management
- Exercises and simulations
- Containment and mitigation of the impact of security incidents
- Liaison with relevant stakeholders, law enforcement and third-party vendors

IDENTIFY

- Assessment of values, systems and data
- Change management
 process
- ISMS as a risk management framework
- Risk assessments
- Contact with SWITCH-CERT/-CSOC, NCSC and peers from the community

PROTECT

- Directives and guidelines
- User profiles, access controls and authentication mechanisms (IAM, MFA, ZTNA)
- Firewalls, intrusion prevention systems and other network security controls (NAC)
- Data encryption
- Awarenesstrainings

CONTINUOUS IMPROVEMENT

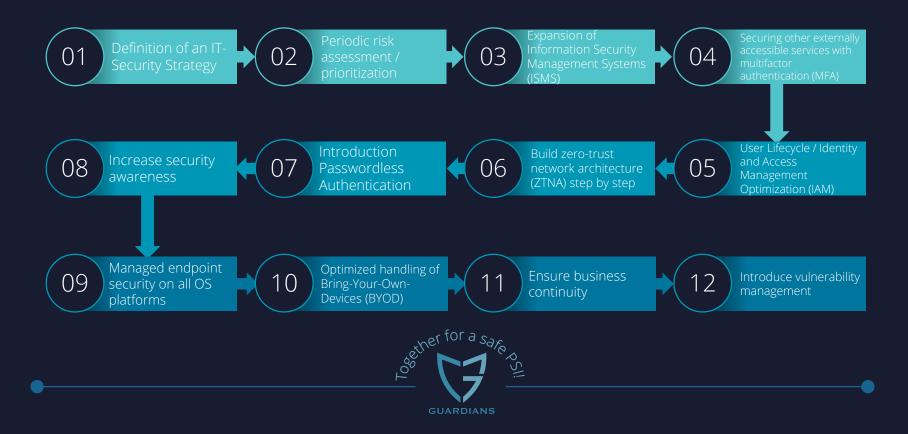
We stay abreast of the **latest security threats**, **trends** and **best practices** by continuously monitoring industry reports and participating in **relevant communities**.

Security controls, policies, and procedures are regularly reviewed and updated to reflect new technologies, industry standards, and evolving threats.



Audits and assessments are conducted regularly to evaluate the effectiveness of the safety strategy and ensure compliance with relevant regulations. A culture of continuous learning and improvement is fostered by providing ongoing safety training and awareness programs for employees.

Necessary Cyber Security Measures PSI (not final)



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Lower Prices of IT Devices

IT Arbeitsplatzgeräte Standard (Notebook, Workstation)

Global IT Offerte vom 14.04.2023 (1035814)

Modell	Konfiguration	Stückzahlen / Jahr	Prognose Stückzahlen / Jahr bis 2025 aufgrund von Migration*	Tranchen / Jahr	Preis Alt exkl. MWST	Preis Neu exkl. MWST	Differenz in Prozent	Differenz Summe
EliteBook 840 CH	EliteBook 840 G9 SureView Keyboard CH	170	330	2-3	CHI 1'401.40	CHE 823 30	41.25%	G CHF 98'277.00
EliteBook 840 EN	EliteBook 840 G9 SureView Keyboard Intl Eng	80	160	2-3	CHI 1'401.40	CHE 823 30	41.25%	6 CHF 46'248.00
Thunderbolt Dock G4 120 W	HP Thunderbolt Dock G4 120W, vPro, PXE Boot,	250	490	2-3	CHI 180.00	CHE 109 40	39.22%	6 CHF 17'650.00
ZBook Studio CH	ZBook Studio G9 Keyboard CH	50	50	2-3	CHI 2'526.80	CHE 2'151 50	14.85%	CHF 18'765.00
ZBook Studio EN	ZBook Studio G9 Keyboard Intl Eng	25	25	2-3	CHI 2'526.80	CHE 2/151 50	14.85%	6 CHF 9'382.50
Thunderbolt Dock G4 280 W	HP Thunderbolt Dock G4 280W Combo Cable, vPro,	75	75	2-3	CHI 242.00	CHE 151 00	37.60%	6 CHF 6'825.00
Elite mini 800	Elite Mini 800 G9 35W	60	175	2-3	CHI 873.72		28.90%	6 CHF 15'151.20
Z2 Tower	Z2 G9 Tower	190	380	2-3	CHI 1'328.19	(HE 1/096 00	17.48%	CHF 44'116.10

Dreamer

voraussichtliche <mark>Einsparung PSI</mark> gesamt

CHF 256'414.80/Jahr

The old prices (offer manufacturer HP with subaccordant Global IT AG) were questioned by AIT. Therefore, clarifications and negotiations with the BIT/BBL, the ETH and the manufacturer HP have taken place in recent months. This has resulted in a new offer.

Further clarifications on the prices charged by Global IT AG in the last 4 years are being worked on by AIT and AFD. Afterwards a debriefing with the offering parties will take place.

Negotiations are also currently underway with the BIT/BBL regarding monitors, which will result in further potential savings for PSI.

* In view of the Windows 11 migration in 2024/2025, many more devices will have to be replaced than the normal annual requirement, which is favored by the 40% reduction from the hourly base model.



Information Head AIT

• New Teammates

- Giti aka Sivagnanam Changeerthiga (Regie) 9511 01.07.2023
- Majsner Andrej 9512 01.08.2023
- Schmid Luca (Ex-Lernender befristet bis Q4) 9524 05.08.2023
- Schleuniger Séverin (dito)
- Resignations/Moves/Retirements
- Patrick Schaffner (Regie)
- Open Positions
 - ICT Supporter*in 1st und 2nd Level (9511)

https://www.psi.ch/de/pa/stellenangebote/57654-ict-supporterin-1st-und-2nd-level

9540

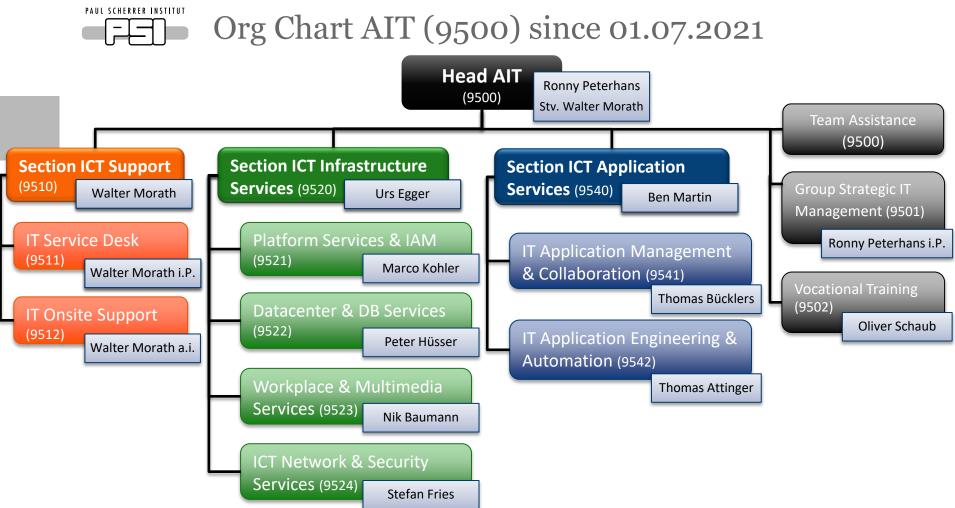
9511

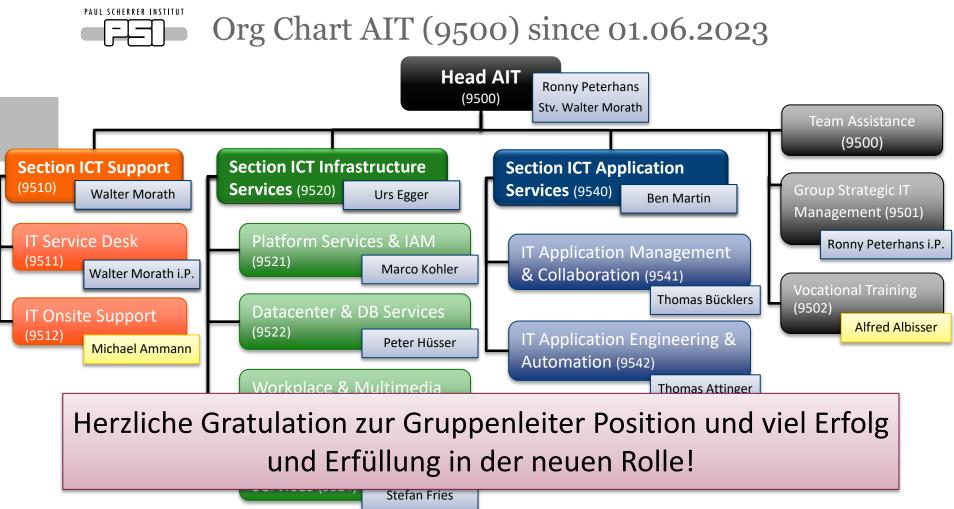
05.08.2023

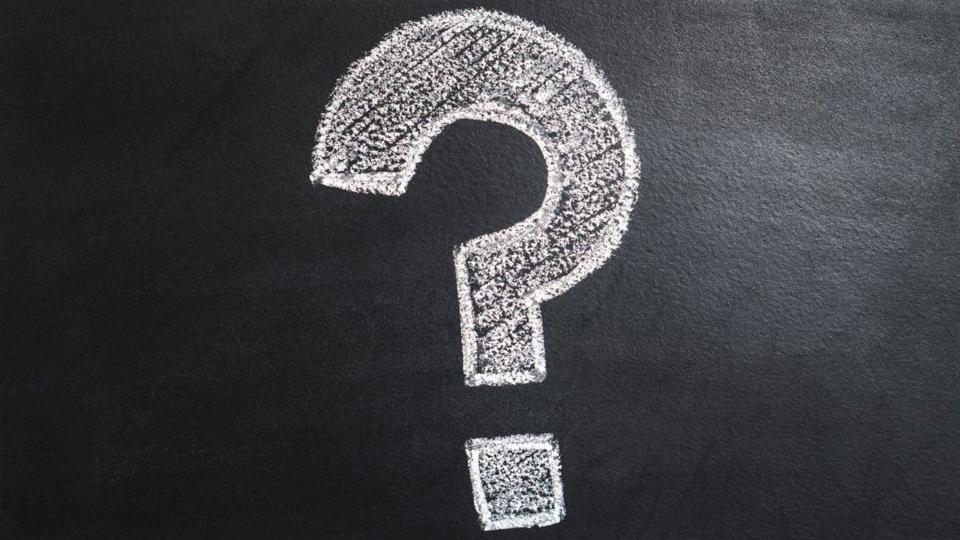
30.06.2023









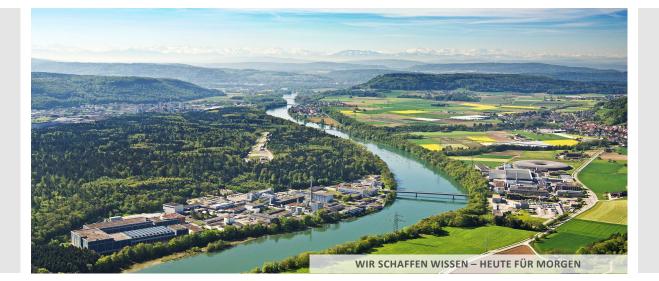




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5 Years with SCRUM – an Experience Report Rico Besson, ZPT

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Rico Besson :: Groupleader Medical Software :: Paul Scherrer Institute

Scrum – 5 years field report

IT Quartalsinfo – 29.08.2023



Content and Context

Content:

- Scrum (Quick Refresher)
- Scrum Key Points
- Implementation & Experiences
- Conclusion
- Questions/Discussion

Context:

- Software development team at CPT
- 5 FTE
- Main Focus: Treatment Planning Systems
- Certified Scrum Developers



Scrum Key Points (I)

- 3 Roles:
 - Product Owner (1 FTE)
 - Development Team (3 9 FTE)
 - Scrum Master (1 FTE)
- 5 Events
 - Sprint (2 4 Weeks)
 - Sprint Planning (1/2 1 Day)
 - Daily Scrum (15 Minutes)
 - Sprint Review (2 4 Hours)
 - Sprint Retro (1 2 Hours)
- 3 Artifacts
 - Product Backlog
 - Sprint Backlog
 - Increment



Scrum Key Points (II)

- 4 Important Concepts
 - Time Boxed
 - Scrum Values (commitment, focus, openness, respect and courage)
 - Sprint Goal
 - Definition of Done
- Scrum Guide End Note

"Scrum is free and offered in this Guide. The Scrum framework, as outlined herein, is **immutable**. While implementing **only parts** of Scrum is possible, the result is **not Scrum**. Scrum exists only in its **entirety** and functions well as a container for other techniques, methodologies, and practices."



Implementation & Experiences

- 3 Roles:
 - Product Owner: 1 Person 0.4 FTE (1 FTE)
 - Development Team: 5 Persons 2.6 FTE (3 9 FTE)
 - Scrum Master: 1 Person 0.2 FTE (1 FTE)
- 5 Events
 - Sprint: 2 Weeks (2 4 Weeks)
 - Sprint Planning: 3 Hours (1/2 1 Day)
 - Daily Scrum: 15 Minutes (15 Minutes)
 - Sprint Review: 2 Hours (2 4 Hours)
 - Sprint Retro: 45 Minutes (1 2 Hours)
- 3 Artifacts
 - Product Backlog: Codebeamer Trackers
 - Sprint Backlog: Codebeamer Trackers
 - Increment: CI Build, manually triggered deployment





- We do NOT SCRUM $\ensuremath{\mathfrak{S}}$
- Highly dependant on level of maturity of defined PBIs
 - Well defined PBIs requires a lot of time of the DEV TEAM and the PO
 - No guidelines provided by the SCRUM framework
 - Measure: Not only pull 'ready' PBIs but also PBIs to be refined
- Time Boxed is difficult but important (here we can improve)
- Definition of Done very imortant for the quality of the product
- Collaboration inside (fun, progress) and outside (transparency, impact) the team improved a lot
- We continue with NOT SCRUM [©] !!!

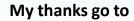


Questions/Discussion





Wir schaffen Wissen – heute für morgen



- my team
- scrumguides.org
- our organisation
- you all and Ronny





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Time for a break!



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PM@PSI & ePPM Platform Alexander Koschik, GFA & Dario Veghini, ZPT





Alexander Koschik :: Planungsbüro GFA / PM@PSI Projektteam :: Paul Scherrer Institute PM@PSI and ePPM platform

AIT Quartalsinfo :: 29.08.2023

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PM@PSI – Introducing unified and helpful PM processes at PSI



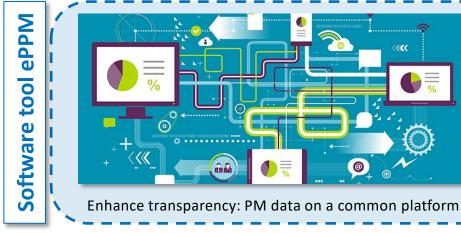
Guidance in managing a project





Unified understanding of phases & milestones and their meaning

Unified, integrated and modular PM training



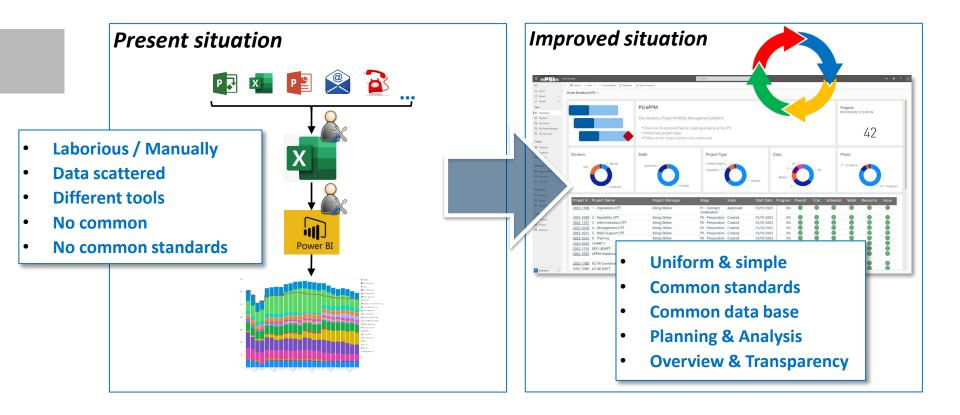


Digitalize booking/managing resources across departments

0



ePPM Platform – Objectives





PM@PSI – Short Overview

Objectives & Goals

- Unified methodology & standards for PM at PSI
- Uniform and simple processes for initiation & execution of projects
- Overview & transparency of planned & running projects
- Overview of usage & demand of PSI resources

Deliverables

- PM Handbooks ('Navigationshilfe')
 - methodology, processes, standards

PM Directive (Weisung)

- roles, responsibilities, competencies, guidelines
- Training concept
- Supporting software tool to support methodology & processes
 - project management (planning, controlling)
 - portfolio management (selection & initiation, monitoring, resource handling)
 - corresponding (approval) processes
 - reporting, status overviews







Guidance in managing a project

Unified understanding of phases&milestones and their meaning

Unified, integrated and modular PM training

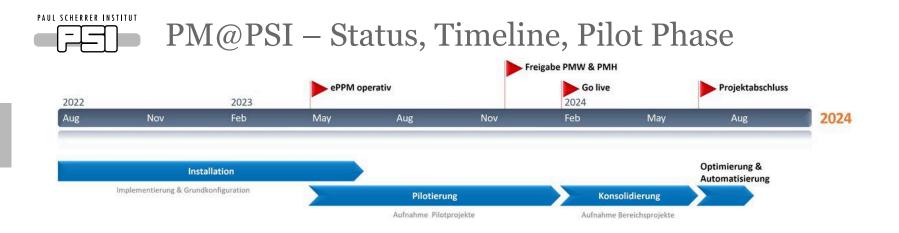


Enhance transparency: PM data on common platform

Digitalize booking/managing resources across departments



ePPM – electronic Project Portfolio Management



Status

- **Directive**, **manuals** ('Handbook'), **training** readily prepared for testing
- ePPM platform main configuration ready
- Pilot phase started
- Gradual addition of further pilot users (PM Basic training + onboarding)

Goals of the pilot phase

- Evaluation of practicability of directive, manuals, training & platform
- Identification of PowerUsers in Divisions
- **Collection** of real project and operational data
- Further detailed configurations in the ePPM platform



Functionality of ePPM platform

• User interface & usage requiring little training

- Simple & self-explanatory operation
 User-friendliness & user acceptance
- Clean & simple user interface yet extensive functionality for the savvy user

• Planning functionality (rough to detailed planning)

- Schedule | Costs | Resources
- Detailied planning options (essential for large projects)
- Resource <u>demand</u> is in the focus (no admin. overhead by reserving/blocking/releasing resources)

• Portfolio/Program Views

- Summary of multiple project data
- Structured overview of the PSI project landscape

• Reporting functionality

- Extensive and flexible



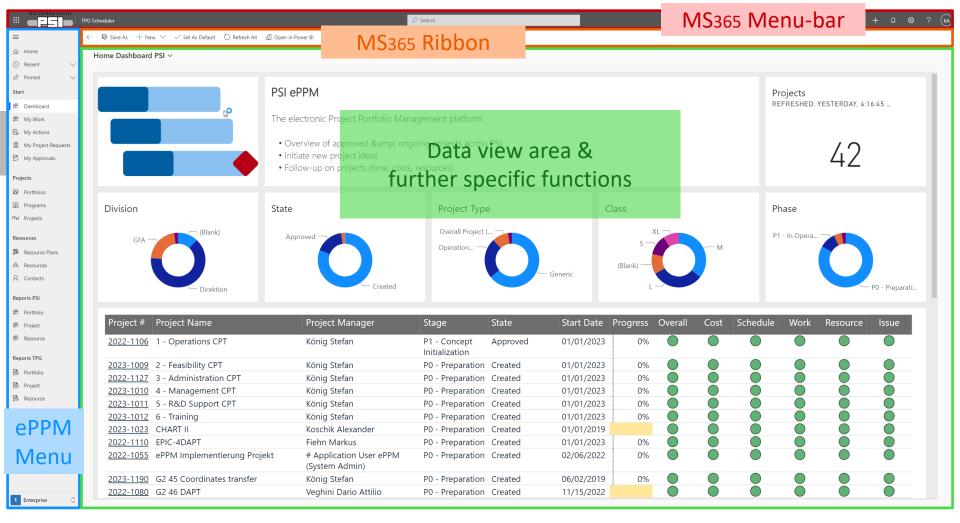
- MS Power Platform based solution
- Cloud-based & easy integration with MS365
- High configuration flexibility
- Small vs. large-scale planning:
 - TPG Scheduler (Web-UI)
 - Project Classic (in Web-UI or Desktop Client)
- Reporting via PowerBI (very powerful)



ePPM platform

Live Demo OR Set of Screenshot to show Functionality

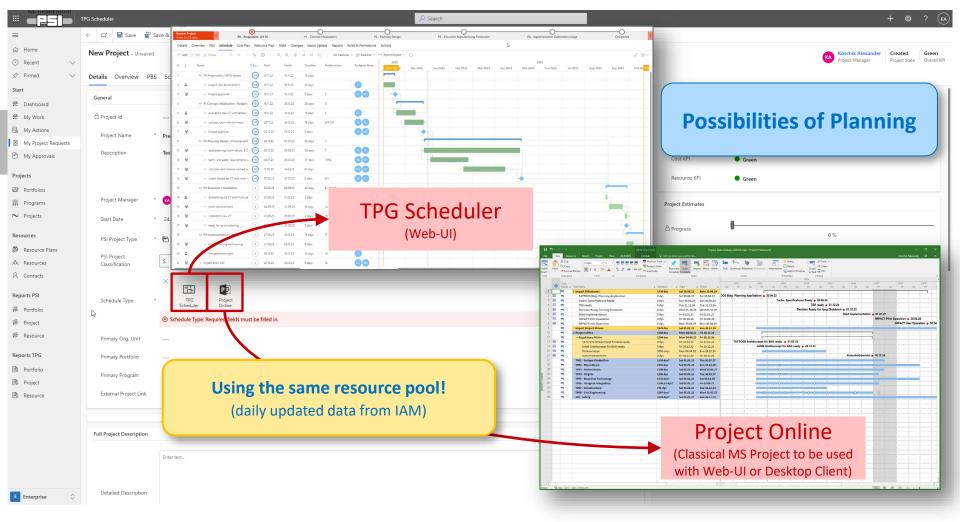
29.08.2023 ::: AIT Quartalsinfo ::: PM@PSI and ePPM platform



29.08.2023 :::

AIT Quartalsinfo ::: PM@PSI and ePPM platform

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12 12	orders placed for CT and room n 00 07.05.23	07.05.23 0 days 9;11	• 9332 Elektroanlagen 2 (2) Whole PSI Organisation
13	P3 Execution / Installation 0 30.08.23	28.09.23 22 days 8+40d;12	92 9332 Elektroanlagen 2 Person resources
14 🚨	dismantling old CT and Flück-Lie 0 30.08.23	01.09.23 3 days	Menghini Marco 50% Generic resources
15 🔛	room refurbishment 0 04.09.23	22.09.23 15 days 14	• 9350 Gebäudetechnik (2) (groups, OU)
16 🔽	installation new CT 0 25.09.23	28.09.23 4 days 15;17SF	HR Häfeli Reto 50%
17 🏰	ready for commissioning 0 27.09.23	27.09.23 0 days	Generic resource = OU
18	P4 Implementation / IBN 0 27.09.23	20.10.23 18 days 17	• 9621 Überwachungssysteme (1)
19 🌺	Commissioning and training 0 27.09.23	06.10.23 8 days	SAVE CANCEL Recommendation:
20	Mängelbehebungen 0 09.10.23	20.10.23 10 days 19	Use generic resources
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Resource table = data master for reporting

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Projects	> 8110 Operation (5)		3′972.0	328.0	328.0	328.0	318.0	318.0	318.0	318.0	318.0	318.0	360.0	360.0	360.0				nuns
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Programs	> 8130 Protonenanlagen (5)		0.0																
	> 8140 Targetanlagen, Strahllinien und Simulat. (5)		402.0	40.0	40.0	40.0	32.0	32.0	32.0	32.0	32.0	32.0	30.0	30.0	30.0				
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B Portfolio	□ > 8230 Messsysteme und Synchronisation (5)		4′358.4	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2	363.2				
🖹 Project	> 8310 Entwicklung und Konstruktion (5)		2′688.0	272.0	272.0	272.0	224.0	224.0	224.0	224.0	224.0	224.0	176.0	176.0	176.0				
🖹 Resource	> 8320 Produktionstechnik (5)		2′154.0	198.0	198.0	198.0	180.0	180.0	180.0	180.0	180.0	180.0	160.0	160.0	160.0				
	□ > 8330 Montagetechnik (5)		5′952.0	516.0	516.0	516.0	508.8	508.8	508.8	482.4	482.4	482.4	476.8	476.8	476.8				
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& Resources 只 Contacts	> 9131 Einkauf (1) > 9210 Immobilien (6) > 9332 Elektroanlagen 2 (7)	0.0 70.4 4.3 8.7 14.6 9.1 99.3 11.4 15.7 4.3 4.3		1.9
Reports PSI 쁑 Portfolio 뺭 Project	□ > 9350 Gebäudetechnik (6) □ > 9621 Überwachungssysteme (1)	63.6 11.4 15.7 4.3 4.3 18.5 7.1 11.4	0.6 17.0 0.7 5	9.6
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AIT Quartalsinfo ::: PM@PSI and ePPM platform

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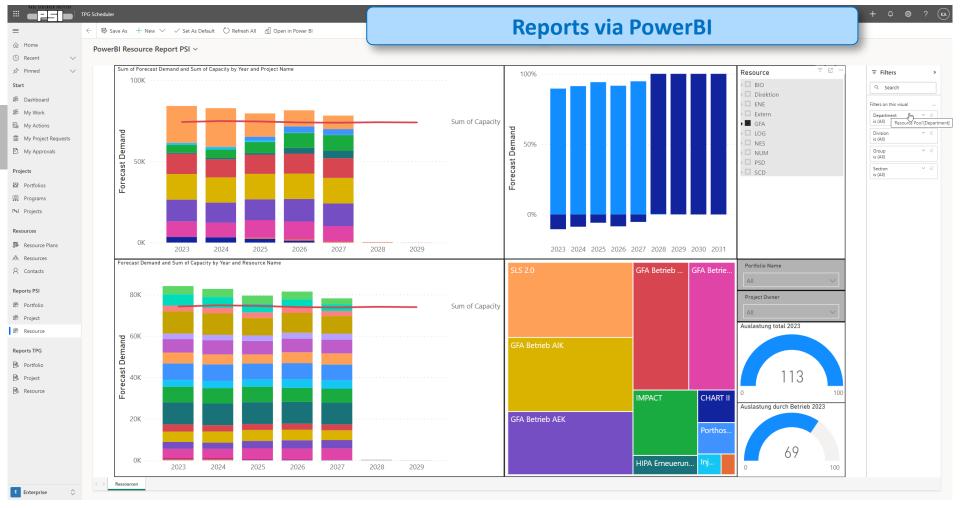
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29.08.2023 :::

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베르 Resource	> 9520 ICT Infrastructure Services (1)	94	8	7	10	6	8	8	8	8	8	8	8	7	
Reports TPG	> 9523 Workplace and Multimedia Services (14)	123	9	10	12	13	13	13	13	16	7	0	9	9	
Portfolio	> 9524 ICT Network and Security Services (9)	904	77	73	83	68	77	77	77	77	77	82	77	64	
Project	> 9540 ICT Application Services (4)	93	6	6	7	5	9	9	9	9	9	9	8	8	
Resource Enterprise	> 9541 IT Application Management+Collabora (5)	484	41	39	44	38	42	41	42	42	41	43	41	34	

29.08.2023 :::

AIT Quartalsinfo ::: PM@PSI and ePPM platform





- PM@PSI: Unify and improve project management at PSI
- PM@PSI and ePPM platform (tool) in pilot phase
- Main ePPM functionality ready for use at PSI
- Interested Pilot Users contact:
 - Alexander Koschik
 - Markus Fiehn
- Thanks for your attention





Time	Торіс	Responsible
09.00-09.10	Welcome & General Update	Ronny Peterhans
09.10-09.35	Information / Update AIT	Ronny Peterhans
09.35 - 10.05	5 Years with SCRUM – an Experience Report	Rico Besson
10.05 - 10.40	Break (with coffee and croissants)	Tanja Wagner
10.40 - 11.00	PM@PSI & ePPM Platform	Alexander Koschik, Dario Veghini
11.00 - 11.15	Information / Update AWI	Alun Ashton
11.15 - 11.30	Information / Update Controls	Sima Baymani
11.30 - 11.45	Status Report RISE-IT – ETH R esearch Institutes looking for S ynergies E valuation of IT Services	Ronny Peterhans
11.45 - 12.00	Q & A / Closing	Ronny Peterhans

Information / Update AWI Alun Ashton, AWI

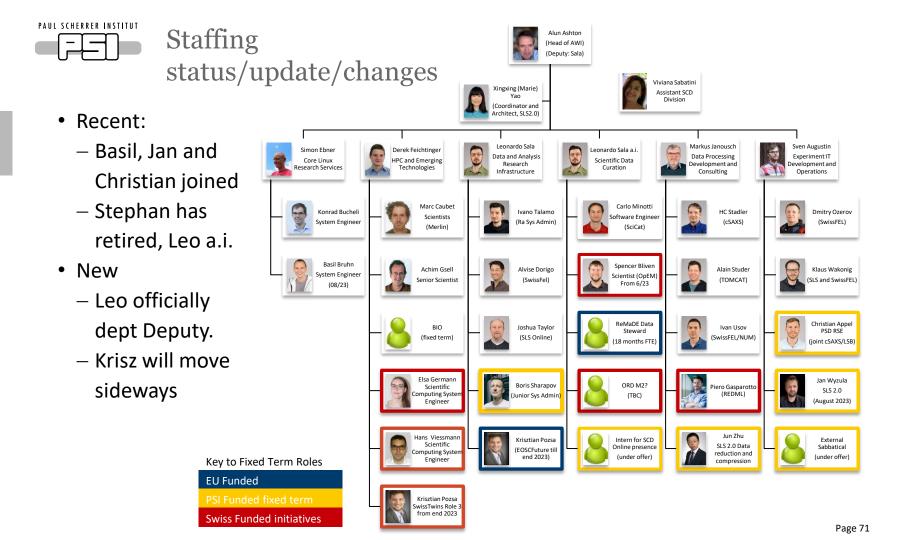




Alun Ashton :: Head of Science IT :: Paul Scherrer Institute

Information / Update AWI

IT Quartalsinfo / 29.08.2023





Relocation to OBBA in September

- Top floor of the dark tower in the East
- Hot desk scenario, 'rules' being discussed in a parallel meeting now

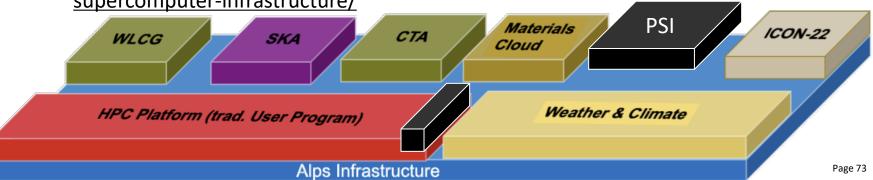


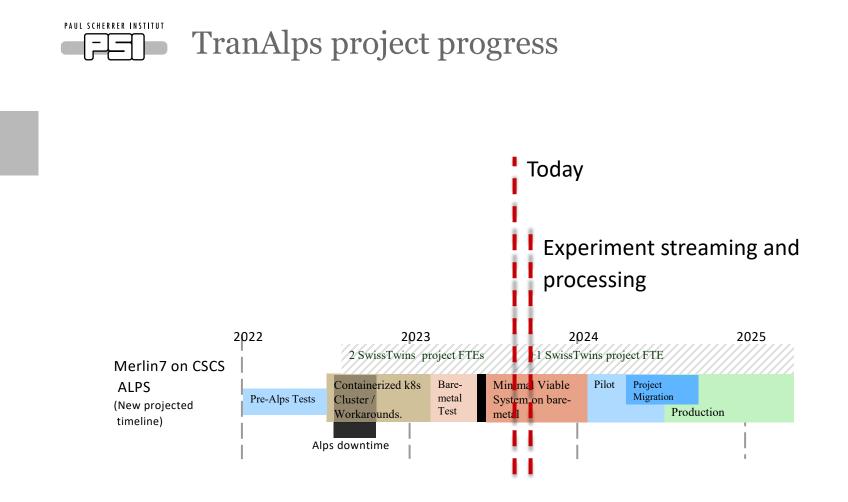


TransAlps and SwissTwins

- In the July DIRK a funding model and source were agreed for 2024 and 2025
- The new resources will give us approximately double the CPUs and 33% more storage at an annual cost of circa 1MCHF/yr
- Merlin6 main storage warranty extended till end of 2024 out of "an abundance of caution"
- Background Article in Technical Publication April 2023.

https://www.hpcwire.com/2023/04/05/into-the-alps-what-exactly-is-the-new-swisssupercomputer-infrastructure/







SciCat operations

- First version of status page online
- all k8s clusters updated to 1.26.3
- outcome from last international SciCat dev meeting hosted in UK:
 - focus on search functionalities
- Statistics from SciCat based on metabase
- new k8s cluster (infrastructure), dedicated to mongo backup
- Improved documentation
- Scaled backend (both SciCat and SciLog) to improve availability and response time
 - session persistency guaranteed by MongoDB



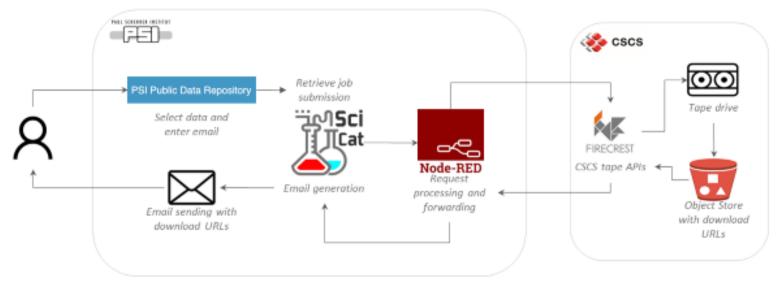






Current recovery of data from PSI

• Manual process to get data requested and staged at PSI for processing or at CSCS for download (and processing in the future)



• Data is not currently automatically made public at end of embargo period.....



Open Research Data

- <u>https://intranet.psi.ch/en/ord</u> PSI specific information (area still under development)
- <u>https://ethrat.ch/en/eth-domain/open-research-data/</u> ETH ORD program details
- <u>https://ethrat.ch/en/the-five-measures-in-details/</u>
 - Measure 1
 - Contribute (< 30k, regular calls)</p>
 - Explore (< 150k one more call)
 - Establish (< 1.5M deadline passed)
 - Measures 2 5 specialised calls.
- Swiss universities parallel call open.
 - Similar scheme but different timeline

ORD: The five Measures in details

Measure 1: Calls for Field-Specific Actions

Measure 2: Coordination of Access to Research Data Management

(RDM) Services & Infrastructures

Measure 3: Development of Online Course Material for RDM Training

Measure 4: Information on Legal Questions related to ORD

Overall overview

43 projects so far:

- 28 Contribute (excluding project that withdrew)
- 13 Explore
- 2 Establish

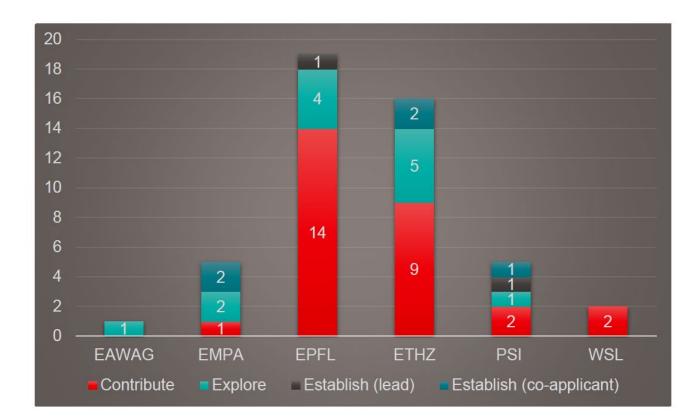
Estimated that around **additional 45-50 projects** to be selected in future calls

- Majority of projects have started already or starting in September/October
- Few Contribute projects being completed: final reporting





Overall: number of projects by institution



ETH Open Research Data (ORD) Program

Timeline: next deadlines

6th call Contribute: mid-December 2023

2nd call Explore: February 2024

7th call Contribute: mid-April 2024

8th call Contribute: early September 2024

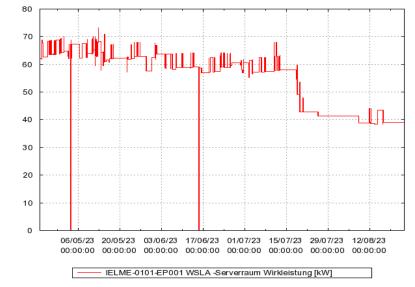
End date all projects (without no costextensions): **By summer 2026**





SLS Server room migration to WHGA progress

 RA migration fully underway



- As preparation for SLS2 tests and operations, 72 single mode fibers (that translates into 36 network connections) between WSLB and WHGA have been laid down in July.
- Several services also further tested e.g. data acquisition tests from SLS direct to WHGA servers and storage.





- SLS User Beam ends 25th of September, shutdown on 30th of September
- PSIM on 15th of September for general information update
- Beamlines are intensively collecting data before the start of dark time
 - Especially the Debye and PXIII new/upgraded beamlines



New access rules to SLS during DT

- During dark time whole SLS building special regulation (Exception Passerelle and offices/floor at offices)
 - Extra "Sicherheitsbelehrung" to be signed
 - Some details need to be refined •
 - Extra "Helmpflicht" below crane
 - Extra "aktiven medizinischen Implantaten" gesperrt. Permanent • magnets
- New controlled zones on the floor for equipment from the tunnel
- During commission (starting End Dec 2024) whole SLS building controlled zone
 - Meeting rooms not PSI wide bookable (to be done)
 - Also offices need dosimeter
- Installation work of heavy equipment (all tunnel work, larger installation at beamlines, not referring to use of equipment at the beamlines)
 - Not alone •
 - During regular working hours (7:00 17:00), or info via DAM Meeting

credits:

Frithjof



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Information / Update Controls Sima Baymani, Controls





Sima Baymani :: Head of Section Control Systems :: Paul Scherrer Institute

IT Quartalsinfo – Controls update

23.2.2023





- Controls overview and intro
- Controls contacts
- Controls in numbers
- Ongoing activities



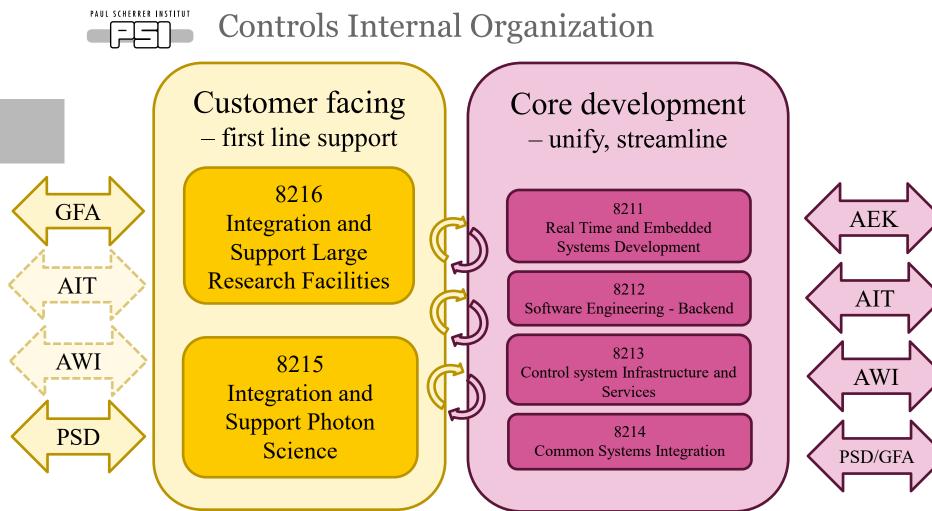
Controls at the Division Level

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Research Division Biology and Chemistry (BIO) Prof. Dr. Gebhard Schertler Center for Radiopharmaceutical Sciences Prof. Dr. Roger Schibli Biomolecular Research Prof. Dr. Michel Steinmetz Nanoscale Biology Prof. Dr. G. V. Shivashankar	Research Division Research with Neutrons and Muons (NUM) Dr. Alex Amato a.i. Particle Physics Prof. Dr. Klaus Kirch Neutron Scattering and Imaging Prof. Dr. Michel Kenzelmann Muon Spin Spectroscopy Dr. Thomas Prokscha a.i. Neutron and Muon Instrumentation Prof. Dr. Marc Janoschek Multiscale Materials Experiments Prof. Dr. Thomas Lippert		Research Division Energy and Environment (ENE) Prof. Dr. Thomas J. Schmidt Bioenergy and Catalysis Prof. Dr. Oliver Kröcher Electrochemistry Dr. Felik Büchi a.i. Atmospheric Chemistry Prof. Dr. Claudia Mohr (ETHZ) Environmental Chemistry Prof. Dr. Margit Schwikowski Catalysis and Sustainable Chemistry Prof. Dr. Jeroen van Bokhoven tems Analysis Sssell McKenna	Research Division Photon Science (PSD) Prof. Dr. Gabriel Aeppli Macromolecules and Bioimaging Dr. Oliver Bunk X-ray Nanoscience and Technologies Dr. Yasin Ekinci Condensed Matter Prof. Dr. Frithjof Nolting Femtochemistry Prof. Dr. Christoph Bostedt Advanced Spectroscopy and X-ray Sources Prof. Dr. Lue Patthey Nonlinear Optics Prof. Dr. Adrian Cavalieri Nano and Quantum Technologies Prof. Dr. Kirsten Moselund	Research Division Scientific Computing, Theory and Data (SCD) Prof. Dr. Christian Rüegg, a.i. Simulation and Modelling Dr. Andreas Adelmann a.i. Theoretical and Computational Physics Prof. Dr. Andreas Läuchli Materials Simulations Prof. Dr. Nicola Marzari Science IT Infrastructure and Services Dr. Alun Ashton	Division Large Research Facilities (GFA) Prof. Dr. Mike Seidel Accelerator Operation and Development BD Dr. Davids Kicolov Electronics and Control Systems Dr. Thomas Schilcher Engineering and Coordination Kilian Rolli Accelerator Technologies Dr. Hans-Heinrich Braun	Division Logistics (LOG) Dr. Peter Allenspach Finance and Administrative Services Dr. Frank Behner Buildings and Services Lilian Jakob Infrastructure and Electrical Installation Markus Jörg Information Technology Ronny Peterhans Radiation Safety and Security Dr. Sabine Mayer Communications Dr. Mirjam van Daalen



Controls at the Department Level

	Elektronik und Kontrollsysteme (AEK) Dr. T. Schilcher 8200	
Kontrollsysteme S. Baymani 8210 RT and Embedded Systems Development D. Maier-Manojlovic 8211 Software Engineering – Backend T. Humar 8212 Control System Infrastructure and Services D. Maier-Manojlovic a.i. 8213 Common Systems Integeration S. Baymani a.i. 8214 Integration and Support – Photon Science Dr. T. Celcer 8215 Integration and Support – Large Research Facilities Dr. T. Celcer a.i. 8216	Elektronik B. Kalantari 8220 Digitale Signalverarbeitung Dr. W. Koprek 8221 Hardware Entwicklung P. Pollet 8222 Hardware Support K. Bitterli 8223	Messsysteme und Synchronisation Dr. F. Löhl 8230 Beschleuniger Feedbacks und Messsysteme Dr. B. Keil 8231 Timing und Synchronisation Dr. C. Sydlo 8232





Our Stakeholders and Collaborators

PSD - SLS Debye, IR, s-TOMCAT, i-TOMCAT, PEARL, ADRESS, VUV, MS, μXAS, FEMTO, PXIII, PXI, PolLux, nanoXAS, XTREME, Phoenix, SIS, XIL, SuperXAS, PXII, SIM, RESOXS, cSAX, Insertion Devices, Optics, Diagnostics

ENE

PSI-PROJ's sls2, impact,

ESUp

AEK Controls AWI AIT PSD - SF Alvra, Bernina, Cristallina, Maloja, Furka, Optics, IDs/Undulators/

Dechirpers, Photon

Diagnostics, Gun

Laser, Pump Laser

GFA e-Instrumentation(x2), e-Dynamik(x2), p-Instrumentation, p-Dynamik, OP-HIPA, **OP-Proscan**, **OP-SLS**, **OP-SF. BPMs**, Vacuum, Power Supplies, Pulsed Magnets, RF(x3), Timing&sync, Cyklotrontech

LOG

Cryo,

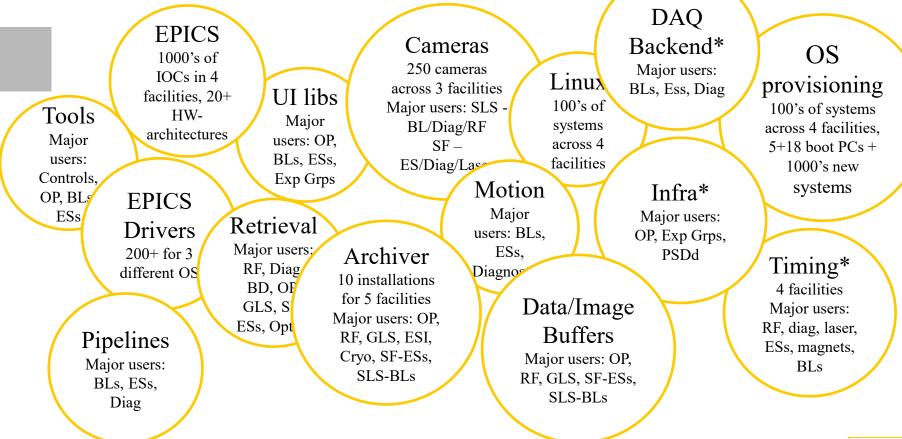
PLCs

ZPT G1, G2, G3, Optis

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Controls Base Level Services





Contacting Controls

- <u>https://intranet.psi.ch/en/controls</u> (WIP)
- <u>https://intranet.psi.ch/en/controls/sls-beamlines-controls-contacts</u>
- <u>https://intranet.psi.ch/en/controls/swissfel-photon-science-psd-controls-contacts</u>
- <u>https://intranet.psi.ch/en/controls/large-research-facilities-gfa-controls-contacts</u>
- <u>https://intranet.psi.ch/en/controls/controls-baseline-services-contact-list</u>

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\bigcirc PSI Intranet Home $>$ Controls	💮 PSI Intranet Hom	e $>$ Controls $>$ Controls Baseline Services Contact List		슈 PSI Intran	et Home > Contr	ols > SLS Beamlines Controls Co	ontacts	
25 April 2023 Controls Home Page	Simaolhoda Baymani 25 August 2023 Baseline Services Controls Contacts		Alvin Samuel Acerbo 27 September 2022 SLS Beamlines Controls Contacts					
Controls Contacts	Service	Baseline Services Controls Conta Primary contact	cts Seconda	Sector	Beamline	Beamline Scientist	Beamline Technician / Engineer	Controls Contact
 SLS Beamline & PSD Support SwissFEL Photon Science (PSD) Support 	Motion	Anders Sandström (ECMC, SLS 2)	Your ma	X01DA	Debye 🗗	Adam Clark	Stephan Hitz	Alvin Acerbo
 Large Research Facilities (GFA) expert groups Support Baseline Services Controls Contects 		Valery Ovinnikov (TwinCAT, general motion, radiation hard motion)	Thierry	X01DC	IR 🖻	Guy Matmon 🗷	/	LukaDebenjak
Disettine Services Collections Collection			Draguti SLS 2)	X02DA	s-TOMCAT	Marco Stampanoni 🗷	Gordan Mikuljan	TineCelcer



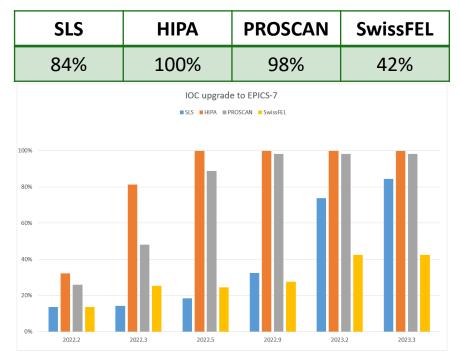
Controls in Numbers: Operational Infrastructure

- 6(+1) Facilities (Cryo, ESI, HIPA, Proscan, SwissFEL, SLS(2))
- 28 Beamline/Endstation Subnets
- 477 VM's on GFA cluster
- 657 RHEL7 systems
- 63 RHEL8 systems (ESI platform IOC's already migrated)
- 41 WinSRV2016 systems (39 CamSRV, 2 Beckhoff Twincat)
- 18 WinSRV2019 systems (13 CamSRV, 5 Beckhoff TwinCat)
- 7 Win7/Win10 desktop systems (not ideal) (4 MX, 2 TOMCAT, 1 test)



Controls in Numbers: EPICS 7 at PSI

- Major endeavor to migrate from EPICS 3.14 to EPICS 7 across all facilities (EPICS base, drivers etc)
- In total 1191 of 1995 IOCs (60%) are upgraded to EPICS 7
- EPICS 7 will be the only version used after the SLS 2 Dark Time
- New: 107 SF PowerBrick IOCs migrated! SF = 51% migrated



Slide: E.Zimoch. Numbers are provided by D. Zimoch after each SLS shutdown



- Finalize transition to EPICS 7
- Encourage and support RHEL8 migration
- Prepare for RHEL9 impact
- General life cycle management
- Prepare for SLS2 (steep ramp up in 2024)
- Increase monitoring of our systems for preventative and proactive measures
- Unify backend services (archiver, data and image buffer backends into one)
- Recruitment
- 2022: 4 vacancies, 2 retirements
- 2023: 4 positions filled, 2 remain
- 2024: +3 retirements



• Seek strategic collaboration and partnership with AIT and AWI, increase exchange



Questions?



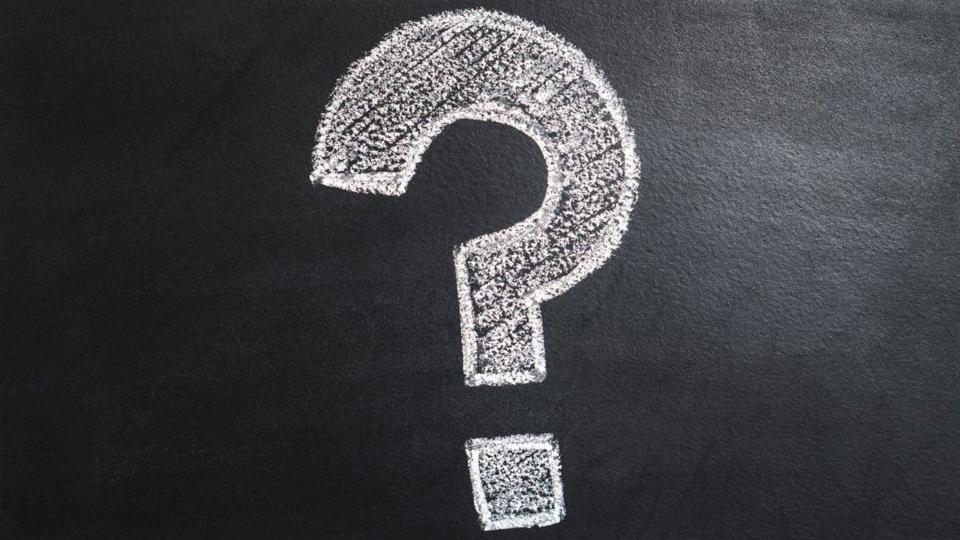
Time	Торіс	Responsible
09.00 - 09.10	Welcome & General Update	Ronny Peterhans
09.10-09.35	Information / Update AIT	Ronny Peterhans
09.35 - 10.05	5 Years with SCRUM – an Experience Report	Rico Besson
10.05 - 10.40	Break (with coffee and croissants)	Tanja Wagner
10.40 - 11.00	PM@PSI & ePPM Platform	Alexander Koschik, Dario Veghini
11.00 - 11.15	Information / Update AWI	Alun Ashton
11.15 - 11.30	Information / Update Controls	Sima Baymani
11.30 – 11.45	Status Report RISE-IT – ETH Research Institutes looking for Synergies Evaluation of IT Services	Ronny Peterhans
11.45 - 12.00	Q & A / Closing	Ronny Peterhans



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- Next IT Quarterly Info 2023:
- Thursday, 23 February 2023
- **V** Tuesday, 23 May 2023
- Tuesday, 29 August 2023
 - Wednesday, 29 November 2023







Wir schaffen Wissen – heute für morgen

Thank you very much for your attention and many thanks to the contributing persons!

