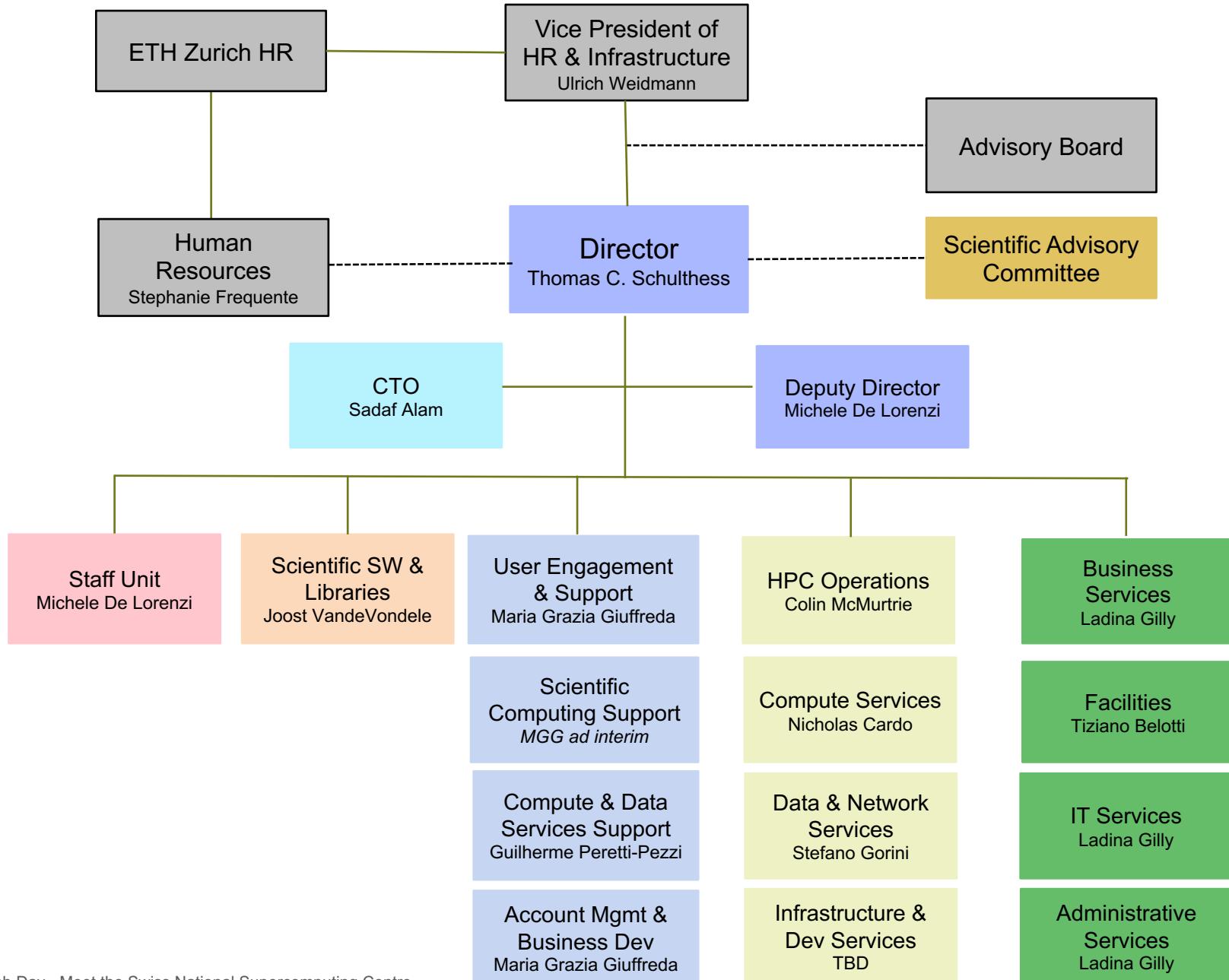


CSCS User Lab Day – Meet the Swiss National Supercomputing Centre

September 11, 2018 in Lucerne

Dr. Maria Grazia Giuffreda, Head of the Engagement & User Support



User Engagement & Support Unit

- User Lab Program
- Calls

- Account Management
- Productization & Business Development

- Scientific Applications & Libs
- Debugging Tools
- Performance Tools
- Monitoring

- Data Science
- Containers
- Interactive Supercomputing
- Continuous Integration
- Visualization
- Workflows
- Scientific Data management

- 1+2 L Support
- Benchmarking
- Regression,
- Documentation
- SW Installation
- SW Support
- Instrument applications for submission
- Training
- MCH & Climate
- Monitoring

Organization from September 1, 2018

User Engagement & Support (MGG)

Account Mgmt. & Business Dvp.

Scientific Computing Support (MGG ad interim)

Compute and Data Services Support (GPP)



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The Team

Account Management & Business Development



Scientific Computing Support



Christopher



Victor



Andreas



Anton



Matthias



Luca

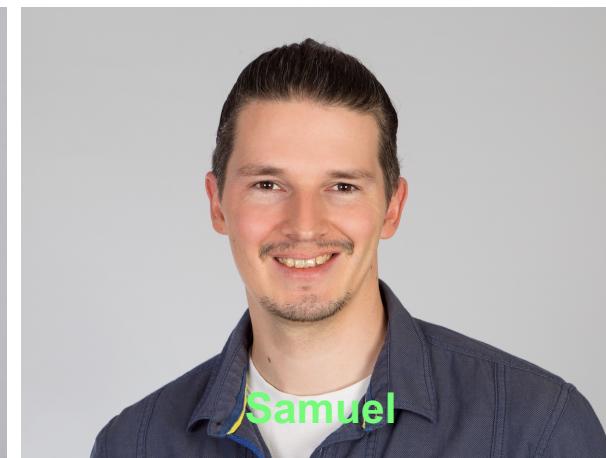
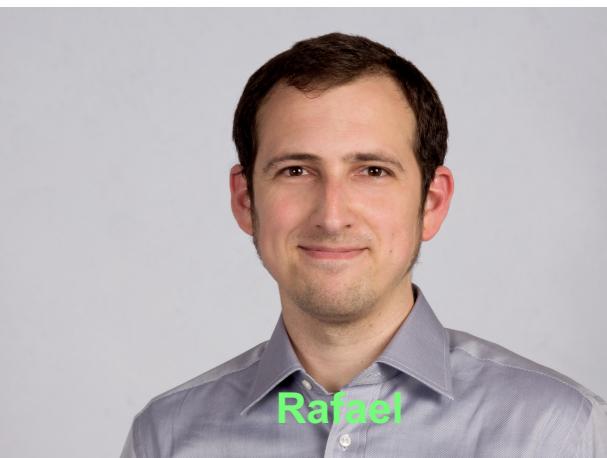
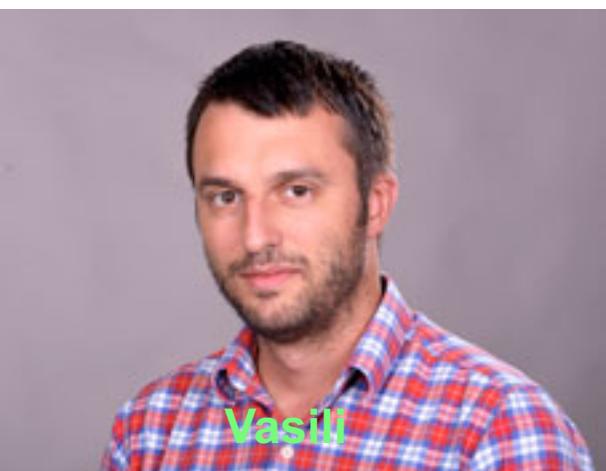


Jean-Guillaume



Sebastian

Computer & Data Services Support





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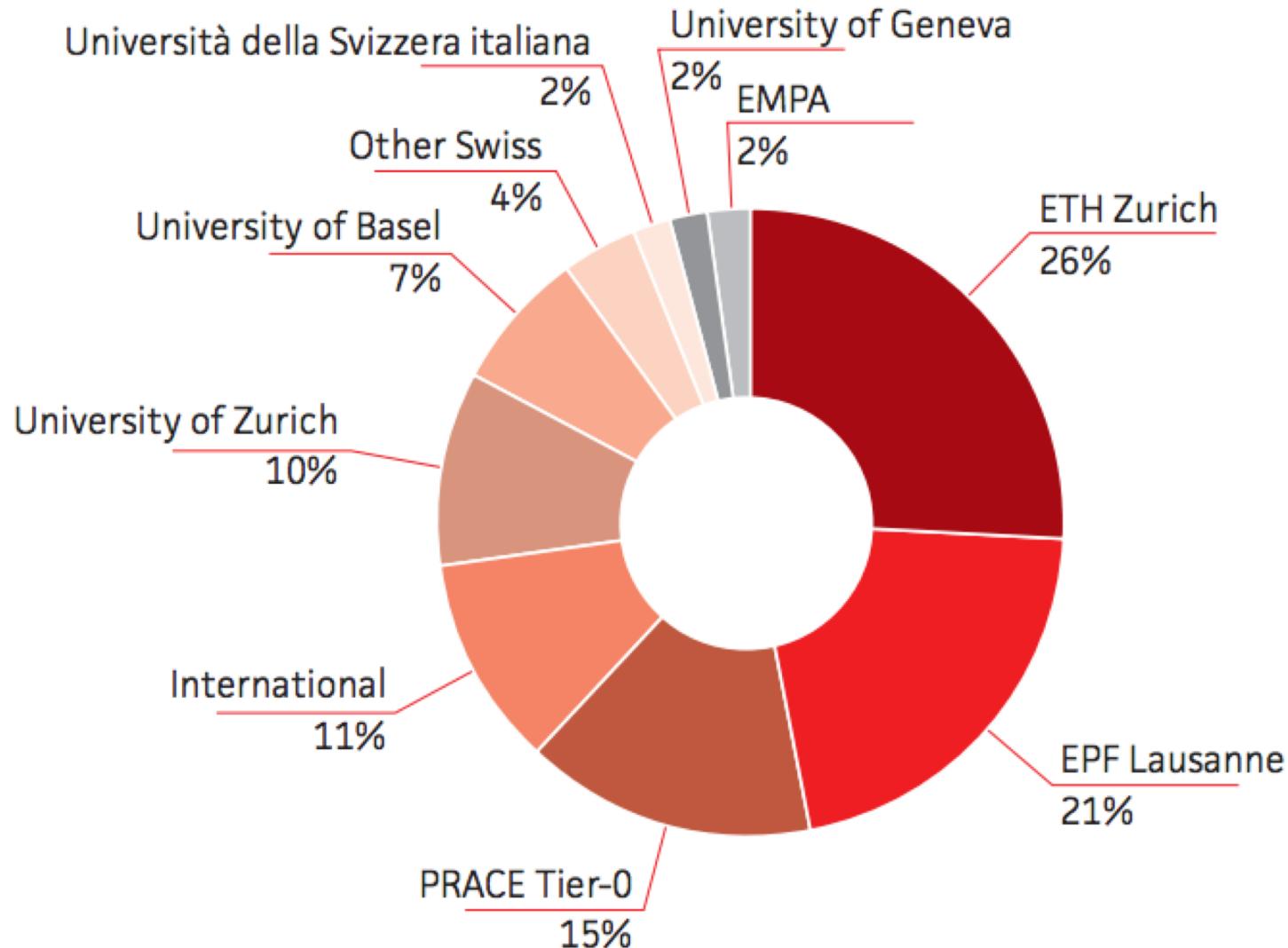
User Lab

User Lab in numbers 2017

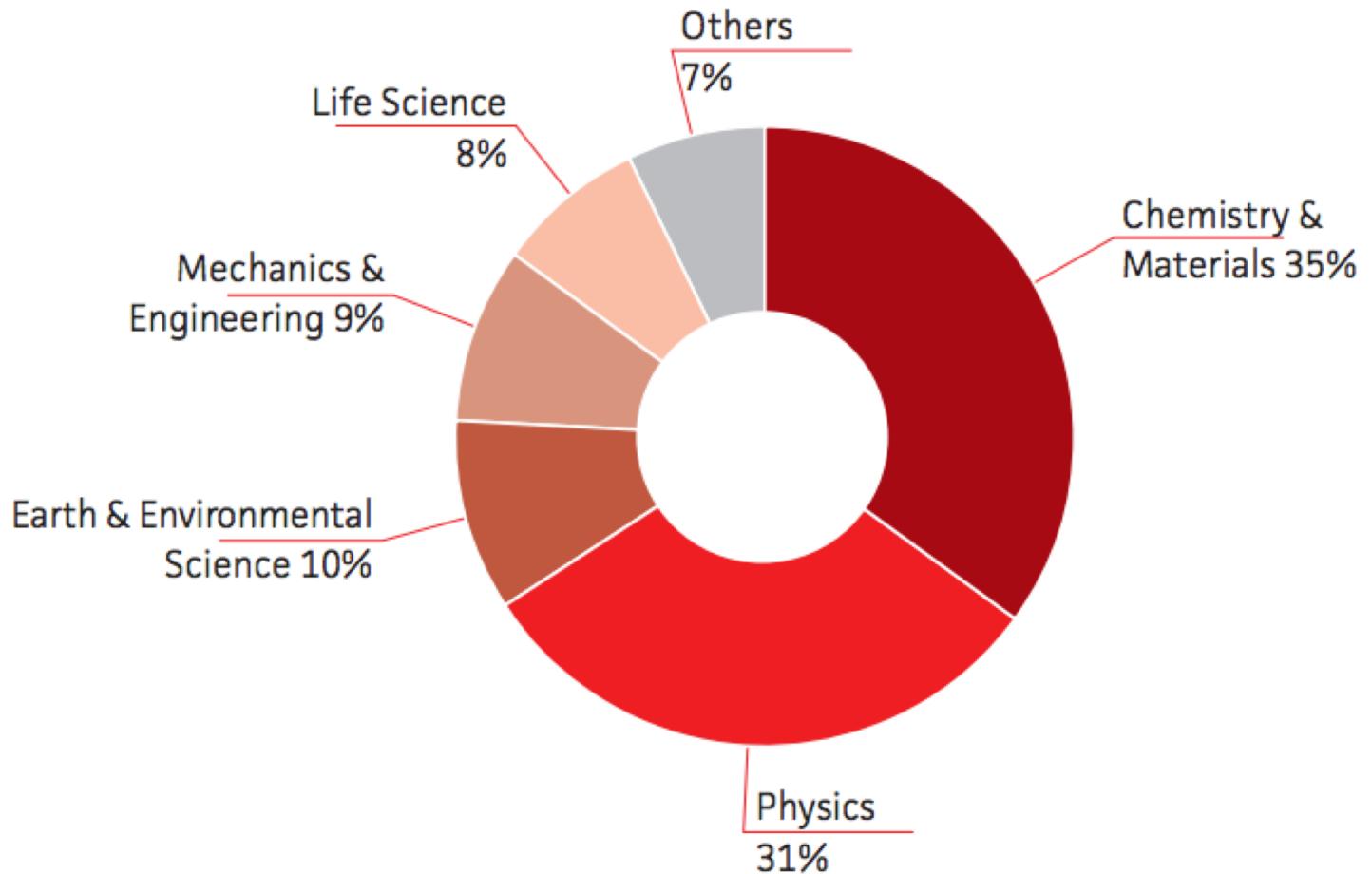
Overview

- 43 Million Node hours used
- 1213 users
- 116 projects
- 10 PB online storage

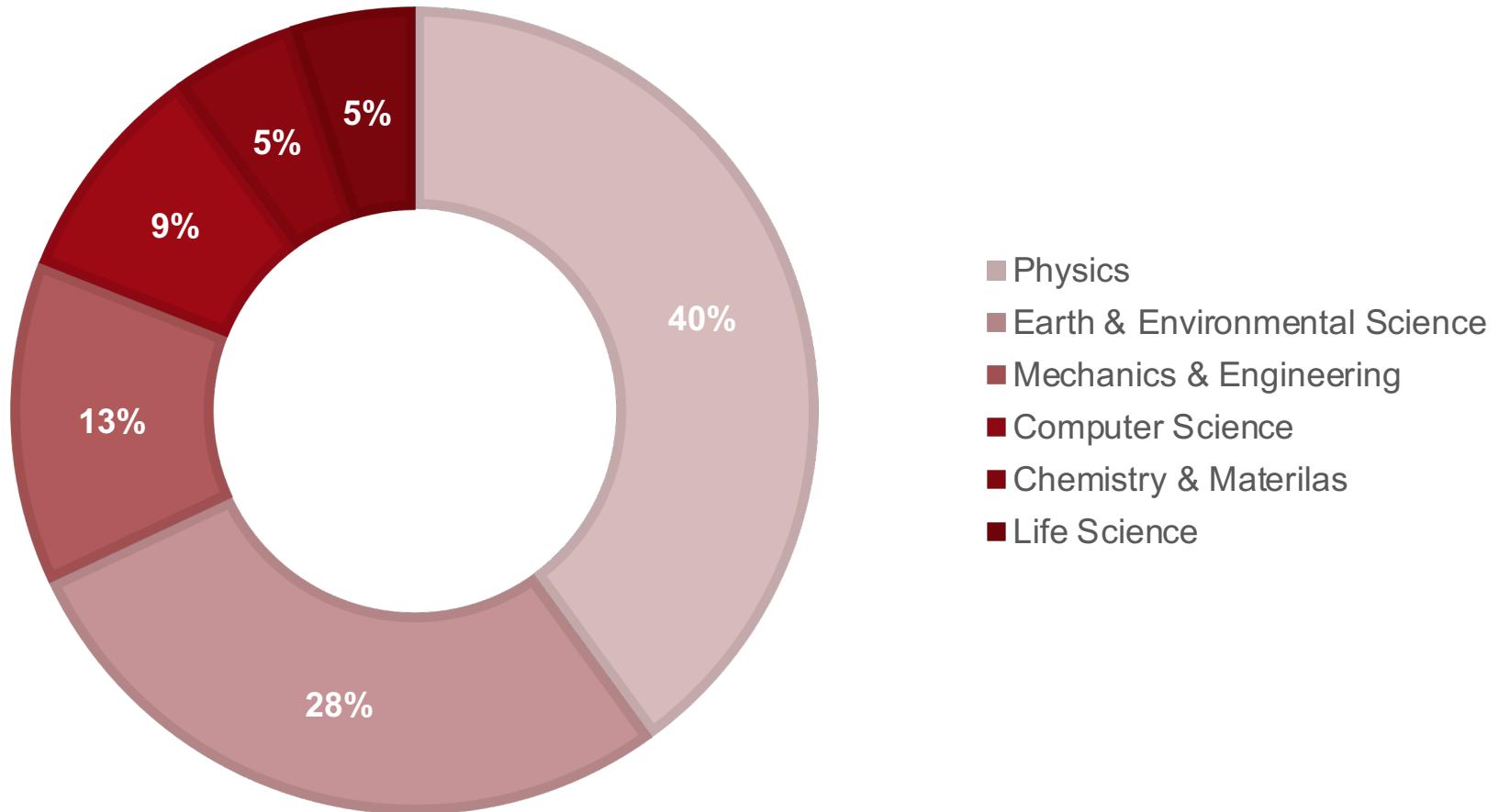
User Lab Usage by Institution



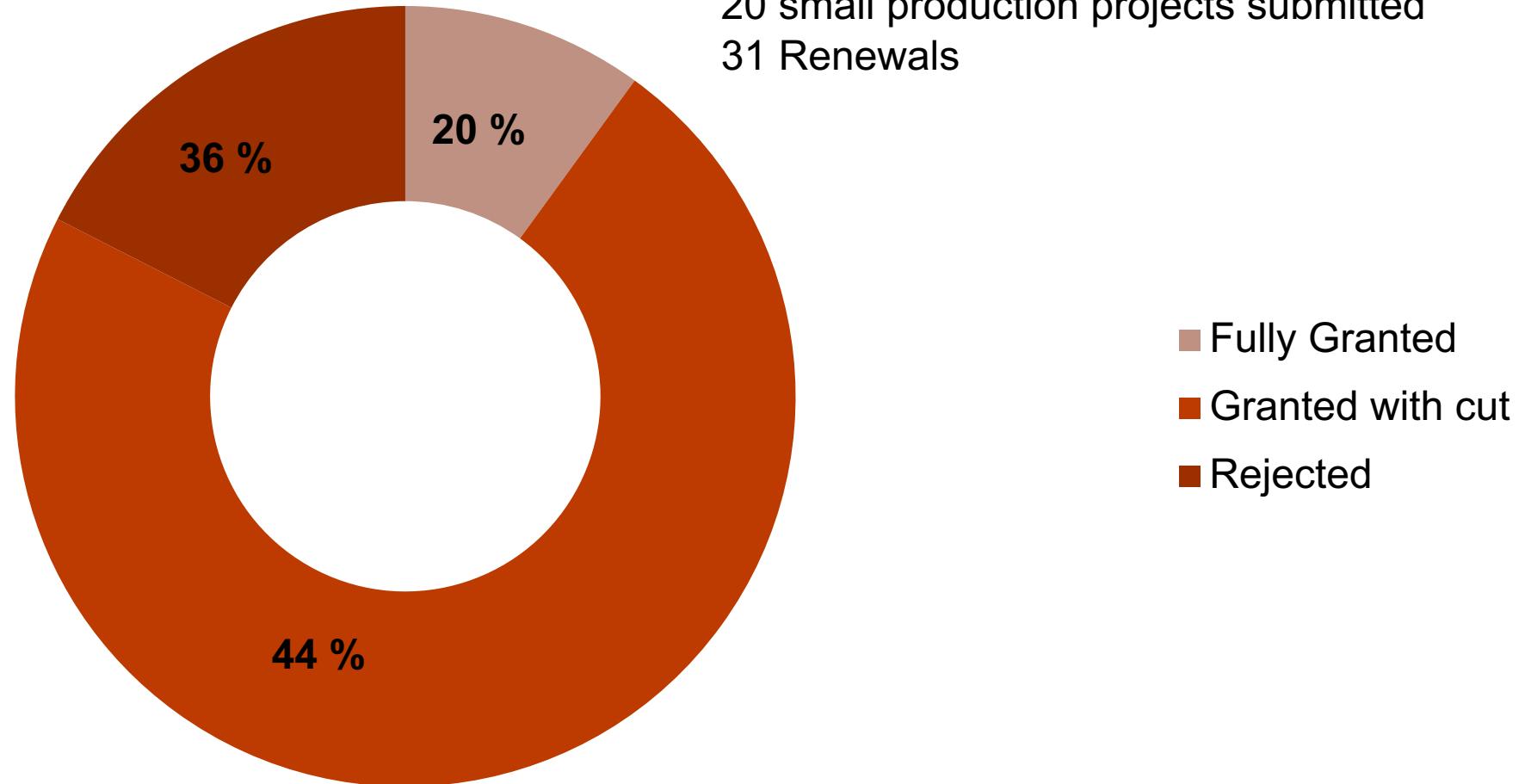
User Lab Usage by Research Field



2017 Temporary storage per Research Field (project)



Acceptance rates in 2017





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Calls for Proposals

National Calls: Deadlines for submission of production project proposals

On **October 26, 2018 → 2019 I Call for Proposals**

Allocation period starting on April 1, 2019

On **May 10, 2019 → 2019 II Call for Proposals**

Allocation period starting on October 1, 2019

<https://www.cscs.ch/user-lab/allocation-schemes/production-projects/>

<https://user.cscs.ch/access/report/> (technical report template available)

Piz Daint - Cray XC50/XC40



5'320 hybrid compute nodes

Intel® Xeon® E5-2690 v3 @ 2.60GHz
(12 cores, 64GB RAM)

NVIDIA® Tesla® P100 16GB

Theoretical Peak Performance: 25.326 Petaflops

1'090 multicore compute nodes

Intel® Xeon® E5-2695 v4 @ 2.10GHz
(36 cores, 64/128 GB RAM)

Theoretical Peak Performance: 1.731 Petaflops

PRACE Tier0 Calls for Proposals

Deadlines for submission of proposals: Calls 18 and 19

Call 18 (Allocation period: from 1 April 2019)

Call Open: 4 September 2018

Closing of the call: 30 October 2018, 10:00 CET

Call 19 (allocation period: from October 1, 2019)

Opening of the call: 5 March 2019

Closing of the call: 30 April 2019, 10:00 CEST

<http://www.prace-ri.eu/prace-project-access/>

Tier-0 Resources Overview

System	Architecture	Site (Country)
Joliot Curie SKL	Bull Sequana X1000	GENCI@CEA (FR)
Joliot Curie KNL	Bull Sequana X1000	GENCI@CEA (FR)
Hazel Hen	Cray XC40	GCS@HLRS (DE)
JUWELS	Multicore Cluster	GCS@JCS (DE)
SuperMUC	Lenovo NextScale	GCS@LRZ (DE)
SuperMUC-NG	Lenovo ThinkSystem	GCS@LRZ (DE)
Marconi-Broadwell	Lenovo System	CINECA (IT)
Marconi-KNL	Lenovo System	CINECA (IT)
MareNostrum	Lenovo System	BSC (ES)
Piz Daint	Cray XC50	CSCS (CH)

Mandatory requirements for the submission of proposals

Please note that **resource limits** are applied to all calls!

National Calls requirements for Piz Daint are:

**less than 1 million node hours on the hybrid partition
up to 500'000 node hours on the multicore**

PRACE Tier-0 Call requirements for Piz Daint are:

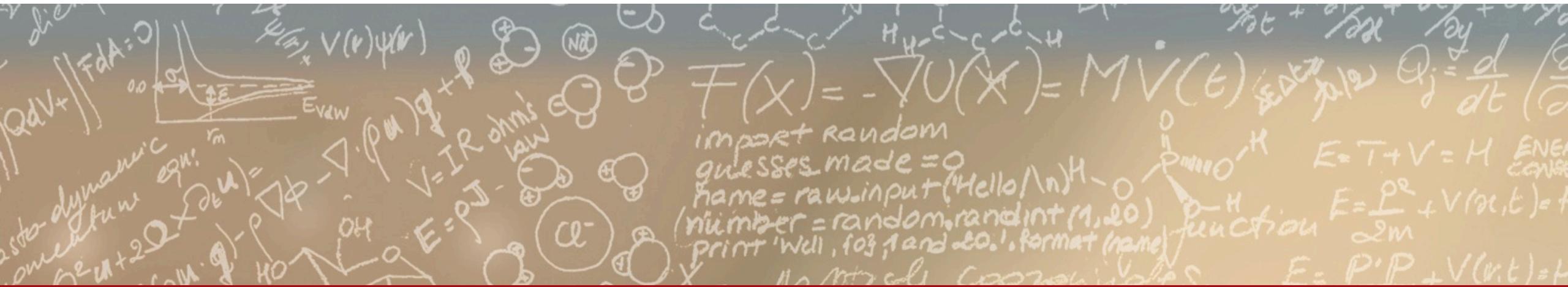
**minimum of 1 million node hours
demonstrated need for GPUs**



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Thanks for your attention.



cscsch