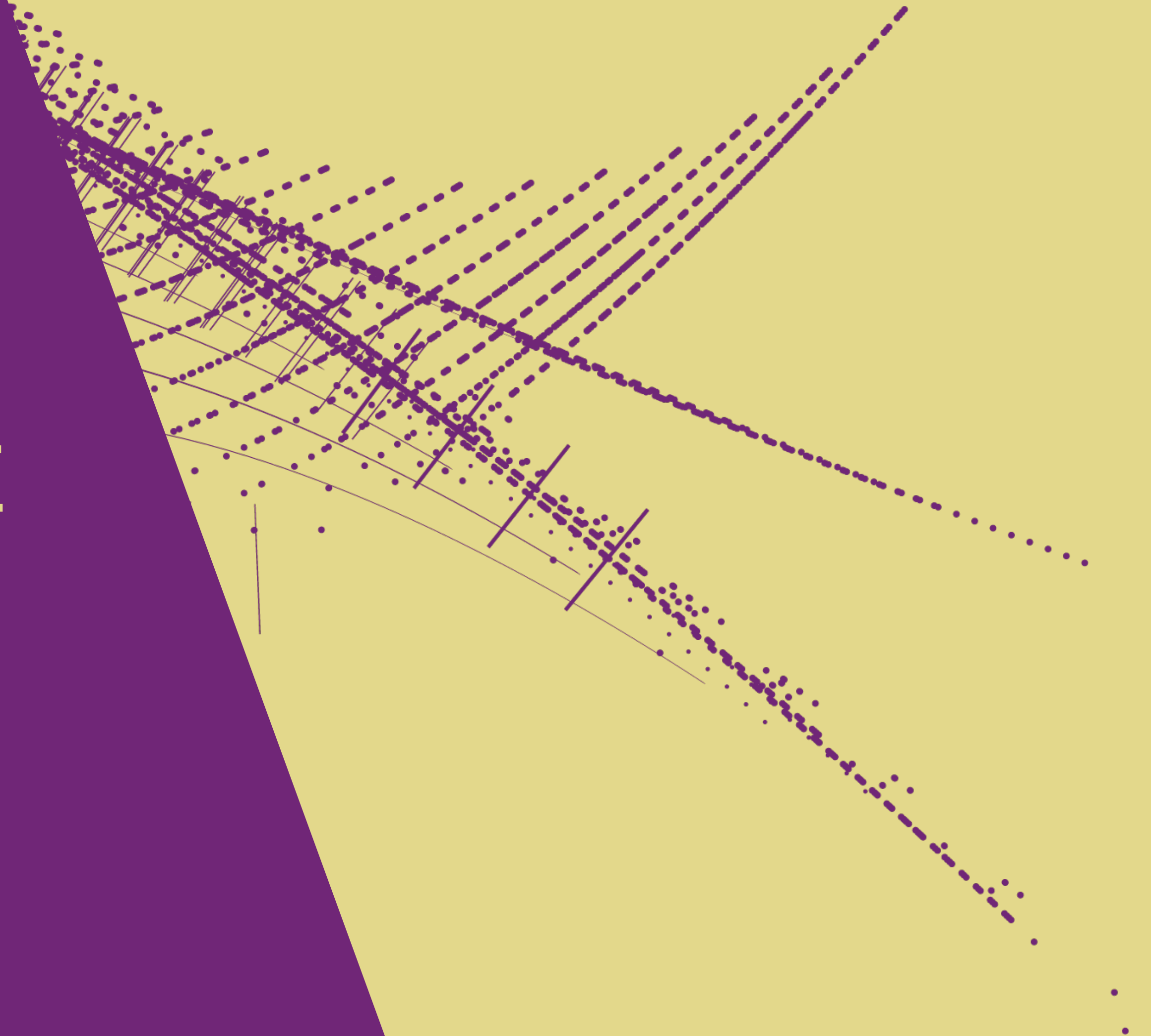




PHYSICS DATA PROCESSING PROGRAMME



PDP PROGRAM MISSION

Ensure that physics reach of Nikhef experiments is never limited by computing, through R&D on scientific computing, R&D on collaborative computing, operation of / contribution to local, national, and international computing infrastructures for science.

[LINK TO LAST YEAR'S NIKHEF JAMBOREE PRESENTATION](#)

THE PROGRAM

Advanced Computing Technology (ACT)

- software defined networking
- architectures for virtualized platforms
- future storage architectures (HL-LHC)

Infrastructure for Collaboration (I4C)

- move “grid” in direction of “GAFA”
- still keep it secure

THE PROGRAM

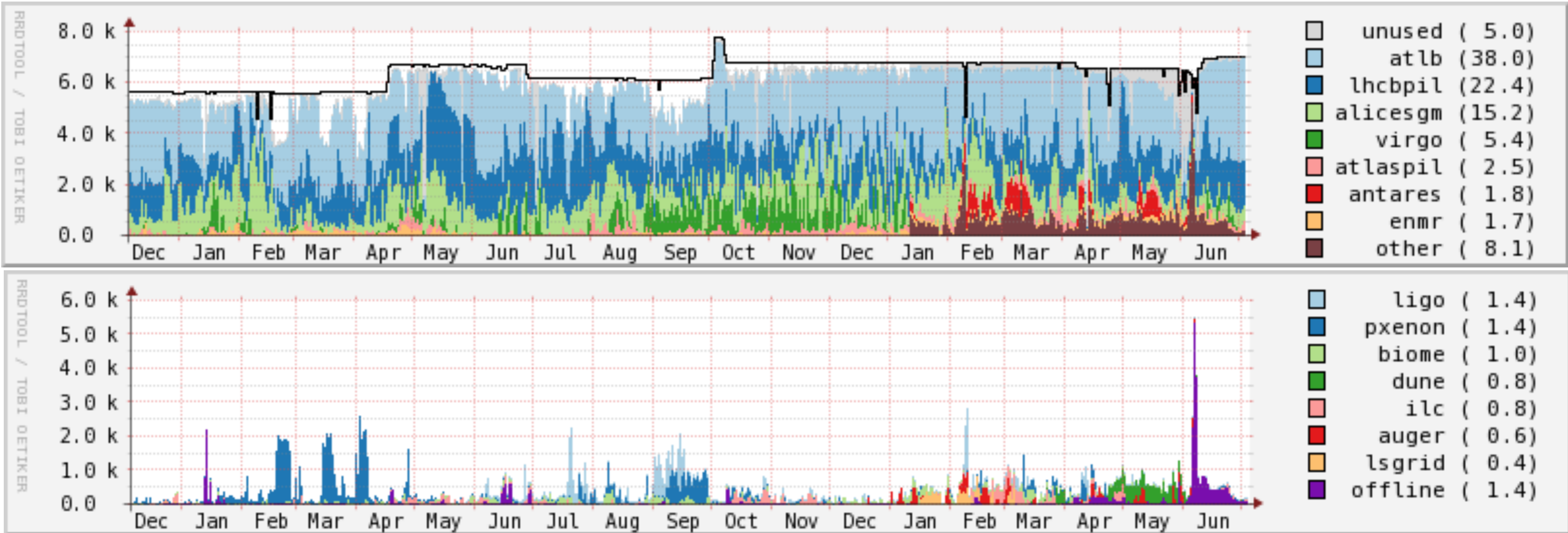
Advanced Computing Technology (ACT)

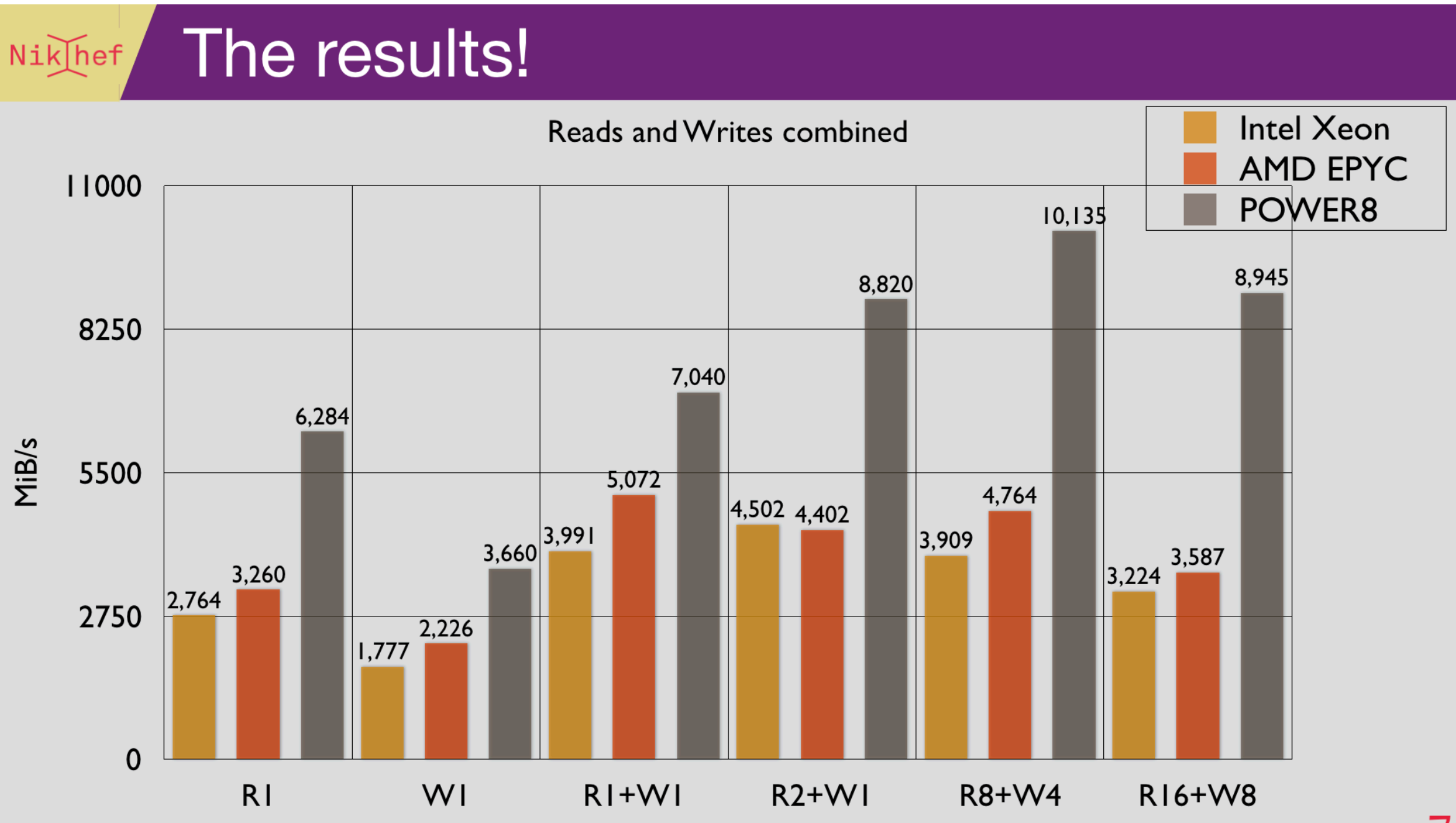
Infrastructure for Collaboration (I4C)

Research Infrastructures (RI)

- local analysis facility “stoomboot” + HT storage
- LHC Tier-1, VIRGO, XENON, **DUNE**, general purpose “NDPF”

USAGE LAST YEAR : COMPUTING, DNI @ NIKHEF





Prototype Data Transfer Node



THE PROGRAM

Advanced Computing Technology (ACT)

Infrastructure for Collaboration (I4C)

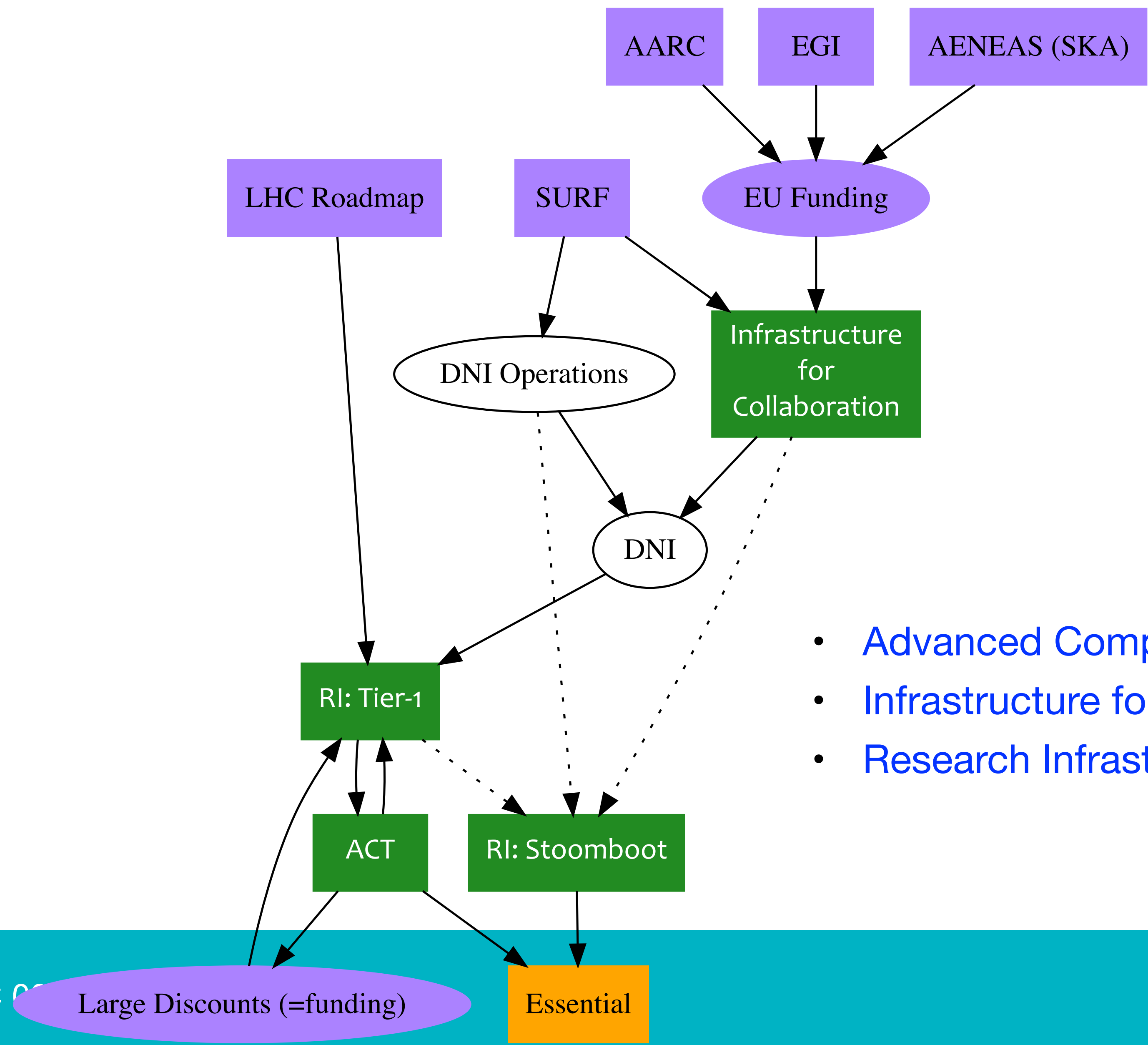
Research Infrastructures (RI)

- local analysis facility “stoomboot” + HT storage
- LHC Tier-1, VIRGO, XENON, general purpose “NDPF”

Applied Advanced Computing (AAC)

- R. Aaij hired 2018 - GPU applications

ORGANIZED BY LINKS & FUNDING



- Advanced Computing Technology (ACT)
- Infrastructure for Collaboration (I4C)
- Research Infrastructures (RI)



Grant application National Roadmap for
Large-Scale Research Infrastructure 2019-2020

FuSE

Fundamental Sciences E-infrastructure

*the Joint Data Processing Facility for
the KM3NeT, LHC, and SKA Roadmap Infrastructures
built on the Dutch National e-Infrastructure coordinated by SURF*

- Essential Funding for Joint Tier-1 (2021-2025)
 - LHC
 - SKA
 - KM3NeT
- Harvest Science for our (with ASTRON) approved National Roadmap infrastructures
- Einstein Telescope in next round
- *Embedded in the DNI*