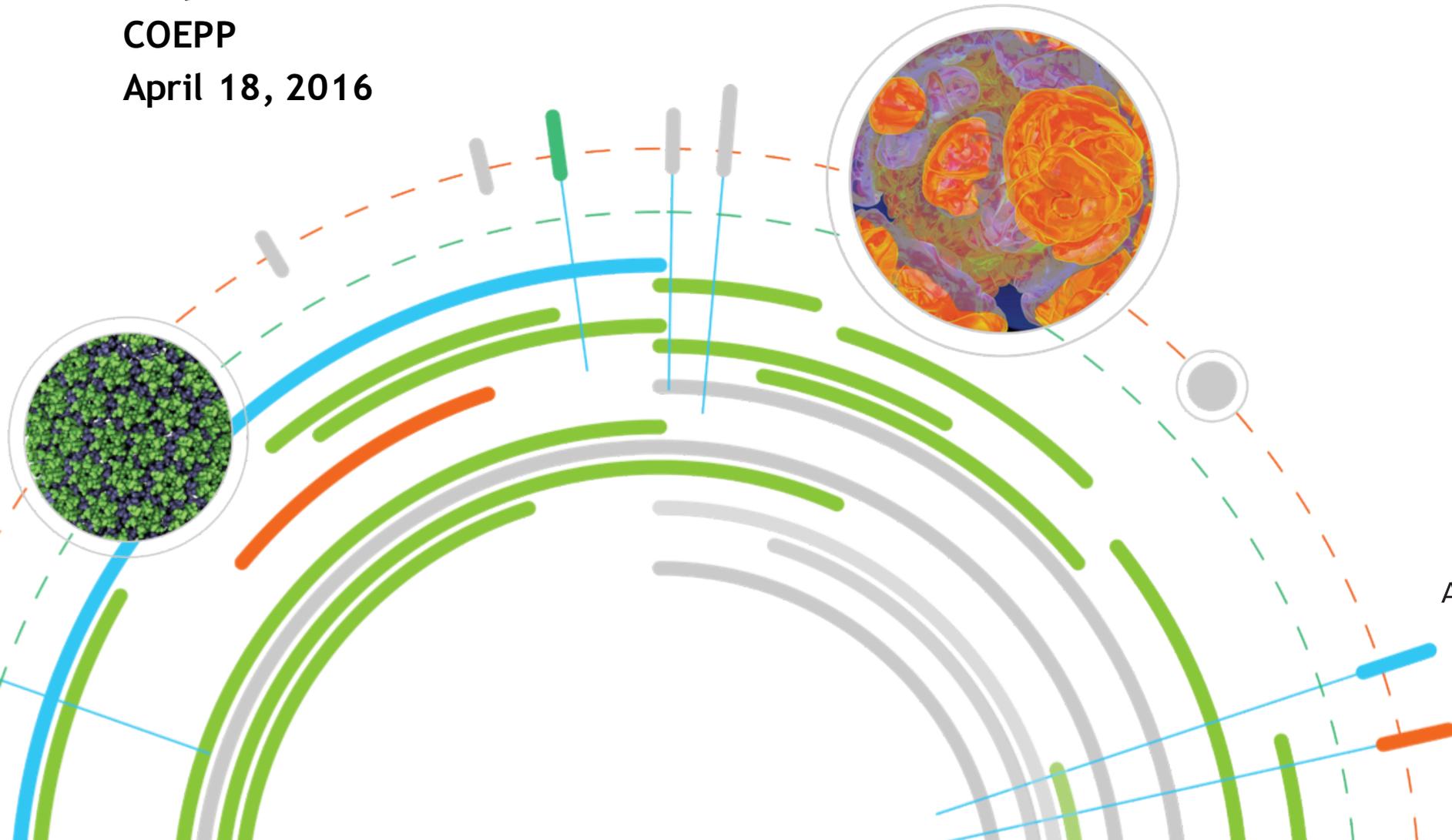


ALCF-Intel-Cray Center of Excellence

Kalyan Kumaran

COEPP

April 18, 2016



Argonne Leadership
Computing Facility

Argonne-Intel-Cray Center of Excellence

Not officially formed yet.

In negotiations with Intel & Cray.

Argonne-Intel-Cray Center of Excellence

Structure*

- ⦿ Three-four onsite Intel/Cray people
 - ⦿ 1 Lustre person
 - ⦿ 2-3 applications people
- ⦿ Starts as soon as agreement signed

2016 – 2019:

Theta system as well as Aurora

Activities

- ⦿ Training
 - ⦿ Deep dives with apps teams
- ⦿ Partner work on applications
- ⦿ Liaise with Intel & Cray
 - ⦿ Verify & address problems identified by early users
 - Early Science teams
 - ALCF staff
 - Tools & libraries partners
- ⦿ Develop community
 - ⦿ Participate in early user forum

*Subject to change; depends on final agreement.

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- ⦿ Target application codes
 - ⦿ Theta Early Science Program codes (6 Tier 1, 6 Tier 2 projects)
 - Tools and libraries project software
 - ⦿ Aurora Early Science Program codes (10 projects selected late 2016)
 - Tools and libraries project software
 - ⦿ Other applications of importance to ALCF
- ⦿ Development strategy
 - ⦿ Take advantage of vendor tools/compilers/libraries
 - ⦿ Develop with portability across other next-generation architectures as a goal