



Project Development & Governance



A. Salzburger (CERN) for the ACTS project

Experiment map

● **SLAC**
LDMX

● **BNL**
sPHENIX
EIC

● **DESY**
Lohengrin

● **CERN**
ATLAS
FASER
ALICE
NA60+
BGV
FCCee/hh

● ● ● ●
CePC
STCF

● **KEK**
Belle-2

ACTS in use/data taking
ACTS in design study/feasibility check
ACTS usage in the past, discontinued

Starting considerations

There's request and needs to formalise/improve two aspects of the project

- **Day-to-day** interaction with experiments:
 - patches & bug reports
 - testing of experiment specific workflows (see Carlo's talk)
 - performance feedback
- **Longer term planning and steering**
 - feature requests
 - prioritizations
 - release strategy
 - Infrastructure

Handling these will require involvement from both ACTS and client/user side, some aspects may need **technical solutions**, some **organisation structure**.

1) Formalising day-to-day interactions

Proposal:

- Extend the **technical test infrastructure** along the ALTAS workflow ...

Breaks Athena build

Breaks sPhenix perf tests

- Requires work with the clients to set this up, needs some **organisation structure**
- Create a channel **bug reports** (github Issues), **patch requests are registered** (?)
 - Allow clients/experiments to follow up on this
 - Will not be trivial to have that seemingly integrated also into experiment bug tracking
- Experiment's name a **liaison** person
 - should be present at the Developers meeting(s*)
 - Give user feedback directly to developers

2) Project steering, contribution & membership

So far, our project has been relatively loosely defined

- focus was on the feature development
- with code deployed in experiments, we will have to shift some of this focus to a more **structured system**

ATLAS has requested some more formalised structure of the project

- It is the right time to think about this

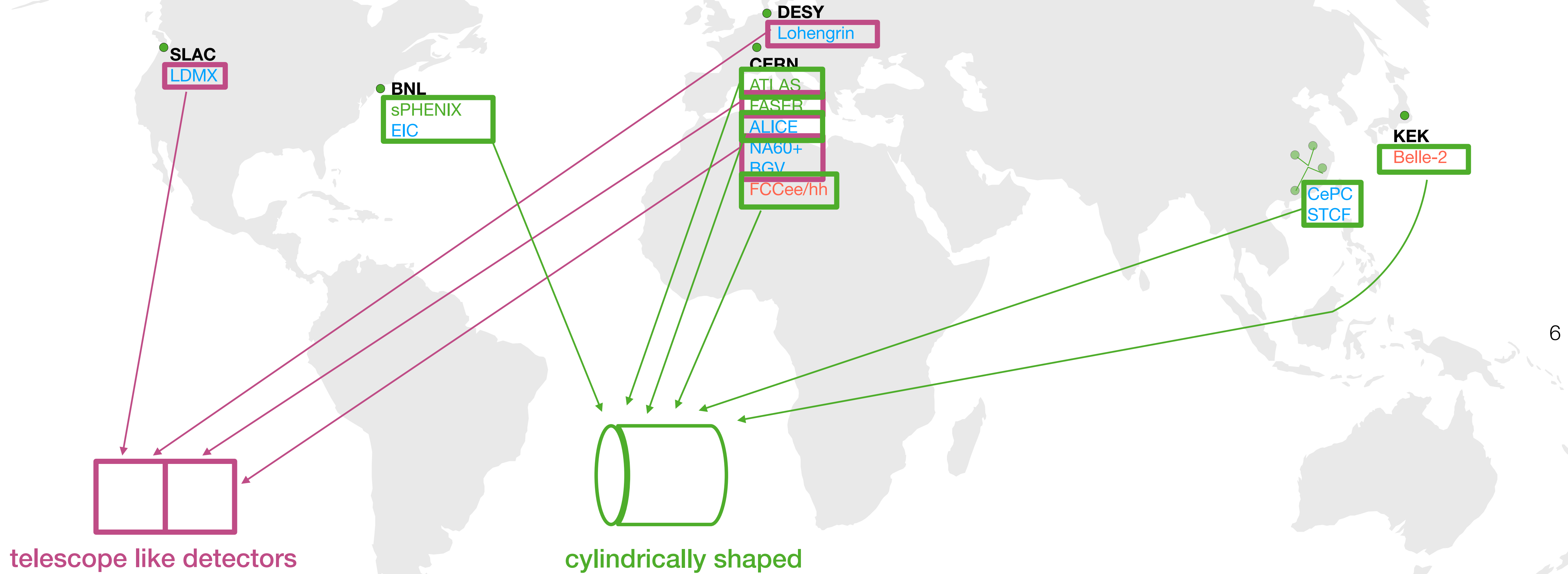
There could/will be different focus for different experiments

- It is probably time to think about this

Some experiments, groups have expressed interest to “join”

- I suggest to keep the requirements to join as east as possible: **you wanna join, you join**

Shape map



Discussion items

- Can we better support telescope like geometries?
- Work package for drift chambers and wire chambers ...

A Proposal - up for discussion

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Create an advisory/steering board, possible composition (for discussion):

Suggest that every experiment that runs ACTS in production code nominates one person to this board

ATLAS
FASER
sPHENIX

CePC, FCCee/hh, STCF

NA60+
LDMX
Lohengrin
...

+ 1-2 person
representing future
collider

+ 1-2 person
representing
Telescope detector
Studies

A Proposal - up for discussion

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The **advisory board** with some regular meetings:

- Represents the experiments' interest that are using ACTS
- Gives input on prioritisation
- Advises on how to resolve potential conflicts (if any exist)
- Suggests a project leadership team: **project leader + deputy** to agree upon and review at the yearly developer's workshop: yearly, bi-yearly ?

*) Other considerations

This discussion was so far focussed on the acts/Core repository

- The **R&D lines** (obviously, rightly) were even more loosely organized
 - Particularly for R&D1: integrating back will create a workload, but could also be a highly desired feature for experiments
 - **priority** setting will be important

(Missing) Integration into key4hep stack is often pointed out

- This is a good example of prioritisation: work on ATLAS, sPHENIX, FASER, etc. simply had **higher priority** than the full key4hep integration

Finally

Having a more **formalised structure** is also a chance

- A stronger binding to the clients/experiments can also open channels for more contributors
 - Example: a strong priority setting by an experiment/client should give incentive to inject person power from this pool
- The project was designed to be carried by the experiments & profit from sharing the resources

