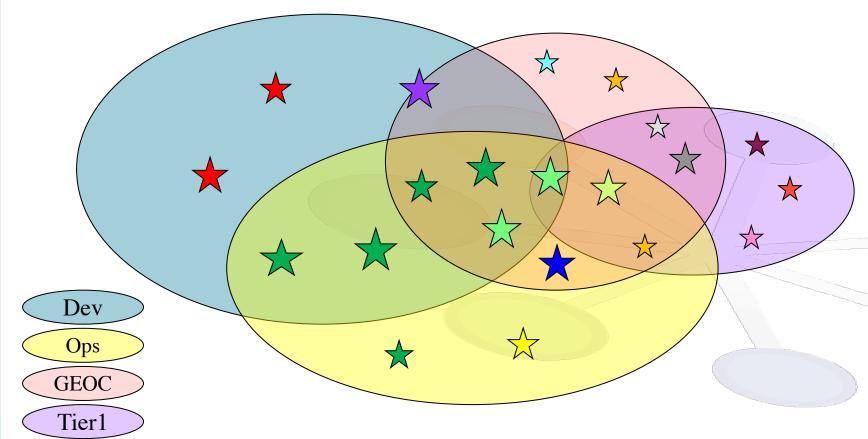


(LHCb)Dirac development and Operations personpower





Activities / person-power





Person-power tasks



- o DIRAC and LHCbDIRAC development
 - Coordination + release of DIRAC from Marseilles
 - **№** 0.5 FTE
 - Mostly driven by the CERN (small) team
 - **3-4 FTEs**
 - Substantial contributions from Warsaw, UK, Germany
 - ☆ 2 FTEs
 - Coordinated by BiLD-Dev biweekly meetings (Federico)
 - Includes developers from other VOs (ILC, Belle2, CTA,...)
- Operations + GEOC
 - Most developers also contribute to operations (3 meetings a week)
 - Coordinated by DevOps biweekly meetings (Chris)
 - Production managers: for real data, MC, WG productions
 - → 2 FTFs
 - Infrastructure: management of VOBOXes, deployment etc...



Outlook for development



- o Continuous development is unavoidable
 - Handle changes in middleware, new platforms, new external services, new requirements (LHCb but not only)
 - Important developments triggered by operational requests
 - New workflows
 - Not underestimate commissioning (one FTE required)
- o After calls for person-power a few LHCb groups (2) have been responsive
 - Thanks a lot! Let's hope this is continuing effort!
- One major committed institute withdrew ~2 years ago
 - This left a major hole in the development team
- Currently CERN has no fellow, no technical student, working in the area
 - Committees to come... Can we expect some human resources?
 - Few interns, most welcome, but need long term commitment
 - □ In 18 months: -1 FTE 😇



Outlook for Operations



o Grid operations

- GEOC scheme works very well (please join!)
 - No shifter required as such (covered by GEOC)
- Still some 2nd and 3rd line support required (provided mostly by developers)
 - Implies development of tools
- One LHCb contact at each Tier1 is mandatory (currently OK)
 - Not full time, but very important for liaising with sites (usually the central team has no access to machines at site)
- Infrastructure support (VOBoxes, releases, deployment) should be reinforced
- Production management
 - We are relying on too few experts here...
 - We need to get support from physics groups for WG productions
- I (personally) would expect more from reinforcement of human resources in already committed institutes
 - There is a high visibility in developing DIRAC, used by a very large number of communities
 - More efficient to have more than one developer

