

# HIE-ISOLDE Phase 1

- 2 Cryomodules up to 5.5A MeV
- 2 beamlines
  - Miniball
  - Travelling experiments
- Helios will not come before 2017
- Fully funded including 700 KCHF loan from CERN
- Will use refurbished ALEPH cryoplant
- Startup in mid-2015

# HIE-ISOLDE Phase 2

- 2 additionnel cryomodules to 10A MeV
- Third beamline
- External Funding
  - cryomodules 3.6 MCHF
  - Beamline 0.7 MCHF
  - 0.7 KCHF available from new Belgian Big Science grant
- CERN funding 1MCHF
- Could be installed during the 2016 winter shutdown if funds are available

# HIE-ISOLDE Phase 3

- 2 Low beta cryomodules
- Buncher/chopper
- U-bend beam line?
- External funding
  - Cryomodules 4 MCHF
  - Buncher/chopper 0.6 MCHF
  - U-bend beamline: 0.7 MCHF
  - No external funds available to date
- CERN funding 1 MCHF
- Could be installed during LS2 if funding available
- Would require major upgrade of ALEPH cryoplant or new cryoplant. Cost not included