WP-6

Capability driven design

Menu

- WP-6a: Equity, Diversity and Inclusion
- WP-6b: Education platforms
- WP-6c: Exchange platforms
- WP-6d: Shared infrastructures

work package	clocks & networks	super-conducting	kinetic sensors	atoms/ions/ molecules	opto-mechanical	nano-engineered / low-dimensional
WP-6a (Education)	X	X	X	X	X	X
WP-6b (Exchange platforms)	X	X	X	X	X	X
WP-6c (Test infrastructure)	X	X	X	X	X	X

WP-6a: Equity, Diversity and Inclusion

- Boost performance and balance of the teams and the collective
- Legal obligation from funding agencies/host

WP-6b: Education platforms

- Current education reality
  - Skills/knowledge not clear in QT
  - Main target are physics students after bachelor level (master in QT)
  - The number of trainees is limited to a fraction of physics students
  - Hard to find people with mixed knowledge: engineering + QT

- What we could do
  - **Establish list of knowledge we consider transversal for the field + optative courses**
  - Prepare courses and share teaching materials
  - Access to labs
  - Specific courses at different institutes
  - **Summer school** (might be after Summer School program at CERN)
  - Skill up courses for electronics, mechanics, chemistry, mathematics…
  - **Microcredentials** with DRq seal of approval (1 year course)
  - Distribute know-how in electronics, vacuum, cryogenics…

WP-6c: Exchange platforms

- Platform for sharing and exchanging
  - Software
  - Hardware
  - Methodologies
  - Manpower
  - …..

Path for standardization

Match between different communities for common interests/projects based on data base of skills/interests/infrastructure

WP-6d: Shared infrastructures

- Access to partner infrastructures for tests/experiments
- Fair share of access
- Can be supported by RDq or group of participating institutions
- Standardization of technologies to "plug and play"