

Q7: What is the overall goal of the QSE Roadmap?

A.7 The QSE Roadmap opens a new frontier of Apollo-style innovation and enterprise

- **Embrace a federation of Apollo-style objectives:**

- NSF: **Tabletop-scale quantum microscopes**
- NIH: ***In situ* cell proteome surveys with 3D atomic resolution**
- DoD 1: **Regenerative healing for every wounded soldier**
- DoD 2: **Radar for molecules: actionable intelligence for WMD defense**
- DoD 3: **Advanced materials: foundations for warfighting and peacemaking**



- **Progress by Apollo-style science and engineering**

- Vanguard: **Demonstrate QMOR/HWIL for quantum system engineering**
- Mercury: **Validate large-scale spin physics (acceptable decoherence)**
- Gemini: **Validate close-approach sample noise (no “moon dust”)**
- Apollo: **System integration in tabletop-scale device (first “lunar landing”)**

- **Create new resources for US and global enterprise**

**We will see, what we cannot now see, that we need to see.
And we will do, what we cannot now do, that we need to do.**

J. L. Garbini and J. P. Jacky

