



Freeke Heijman 16 March 2016 Ministry of Economic Affairs

#### Long term goal

Booming European Quantum Industry
Strategic and technological independance



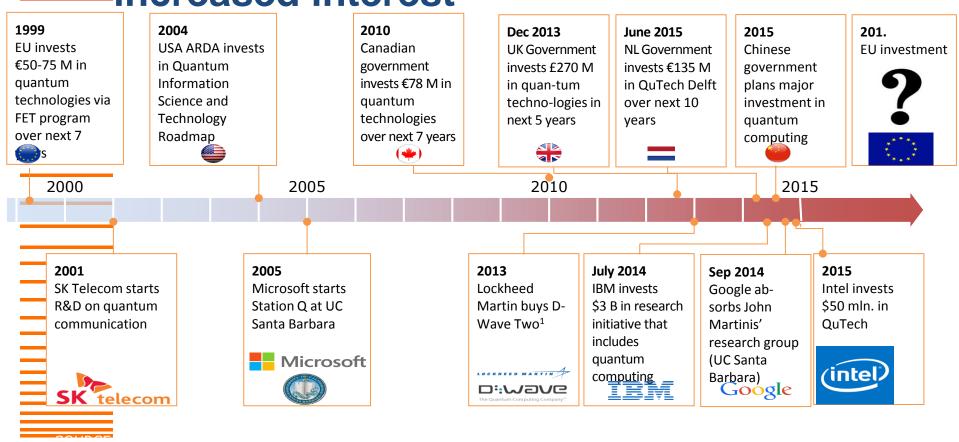
#### What is needed?

EU leadership for integrated effort on science, engineering and entrepeneurship

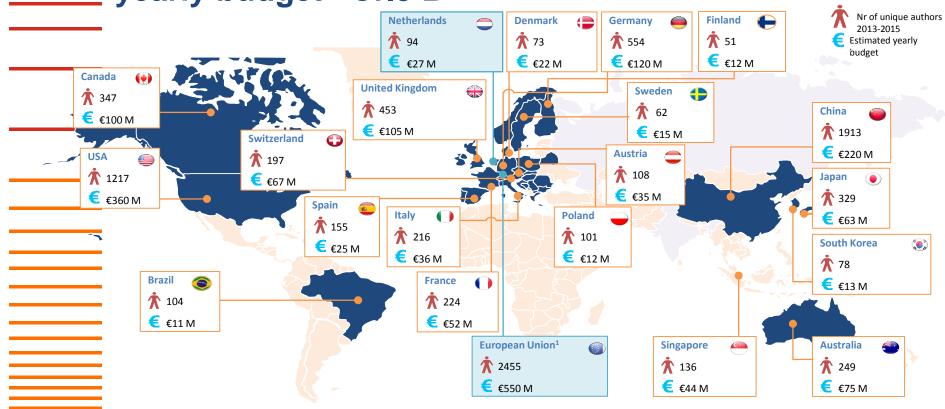
#### Why now?

Quantum Science has reached certain maturity level Other parts of the world are speeding up

# Governments and companies are showing increased interest



~7000 researchers worldwide, estimated yearly budget ~€1.5 B



# **Approach**

Manifesto for strong support in stakeholder communities

Presidency Conference to raise awareness

Parallel approach with Commission and organized community

Presidency note and hand-over to Slowaks



## **Timeline**

Fall 2015: CEO roundtable, Call for European strategy Oettinger/Kamp, 2 pager Juncker, Merkel, Hollande

- March: Quantum Manifesto for endorsment
- April: Communication European Cloud Initiative
- 6 April: STOA event European Parliament
- 17-18 May: Amsterdam Conference
- 26-27 May: Competitiveness Council
- June-June: preparatory phase

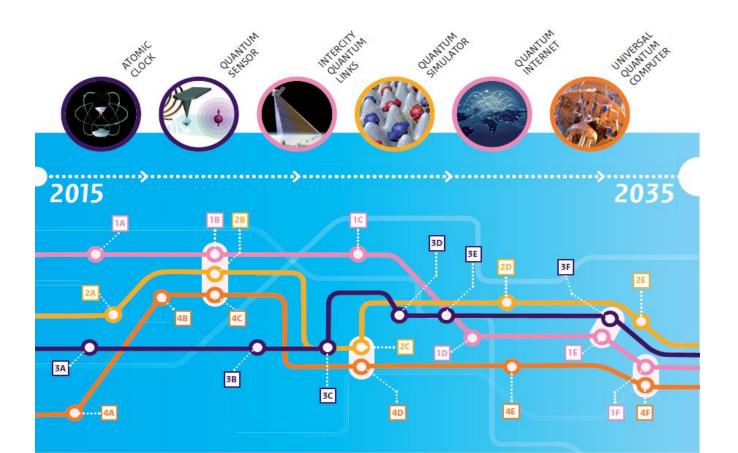
## **Manifesto**

- Quantum Technologies are of strategic importance and will change global industries and markets
- Europe has the opportunity to lead the second quantum revolution
- Timeline with expected killer apps and technology milestones
- Call for flagship-scale initiative

#### **PROCESS**

- European team without chair
- Broad consultation

# **Quantum Manifesto**



# 17-18 May Amsterdam Conference

Hand-over of Manifesto

### Keynotes include:

- -Commissioner Oettinger
- -Mike Lazaridis
- -Mike Mayberry
- -Michael Bolle
- -Krysta Svore
- -John Martinis
- -Alain Aspect



# Lessons learned HPB / Graphene

- Carefully manage leadership roles of top scientists and don't bother them with governance and administration
- Ensure good governance with open, bottom-up processes
- Flagship brings research communities together and exposed to one another.
- Leave room for scientific or any other form of debate
- "Federating" the research communities takes time
- A Flagship is not a bundle of H2020 projects
- Manage expectations and keep communications open and transparent