

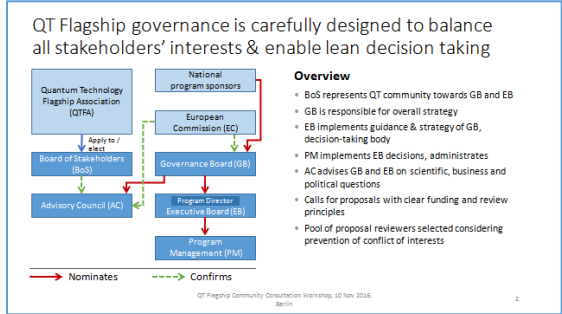
# QT Flagship

## Governance & Implementation model

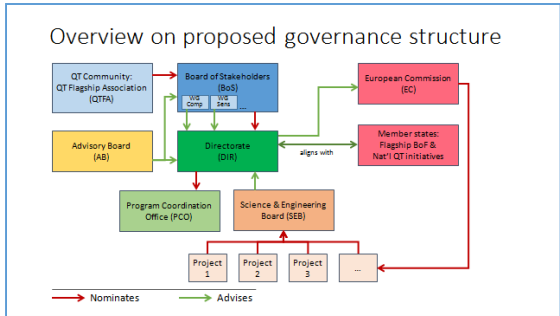
Board of Funders Meeting

Brussels, 15 May 2017

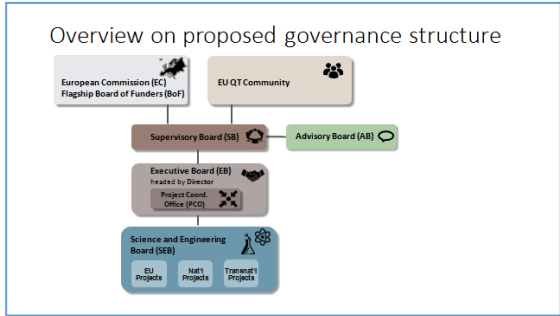
# Development of QT Flagship governance structure over time



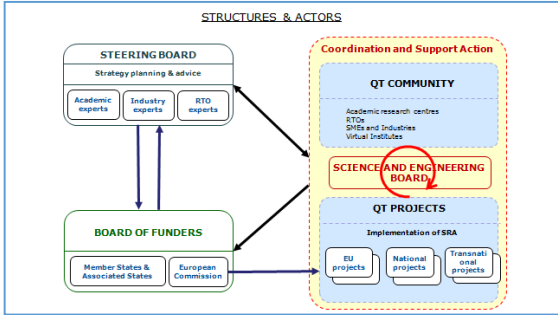
**Nov 16**  
Community consultation



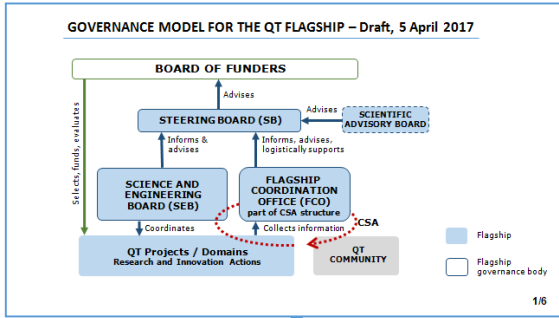
**Jan 17**  
Editorial subcommittee



**Feb 17**  
2. HLSC meeting



**March 17**  
Discussion with EC



**April 17**  
3. HLSC meeting

# Frame conditions by EC and lessons learnt from running Flagship initiatives

## **New model:**

No more core consortium, instead closely coordinated projects

## **Frame-conditions by EC:**

- R&I projects selected, managed, evaluated according to H2020 rules (at least in ramp-up phase)
- Science & Engineering Board to coordinate between R&I projects
- CSA to coordinate all non-R&I activities
- An effective governance



## **Adopt from running Flagships**

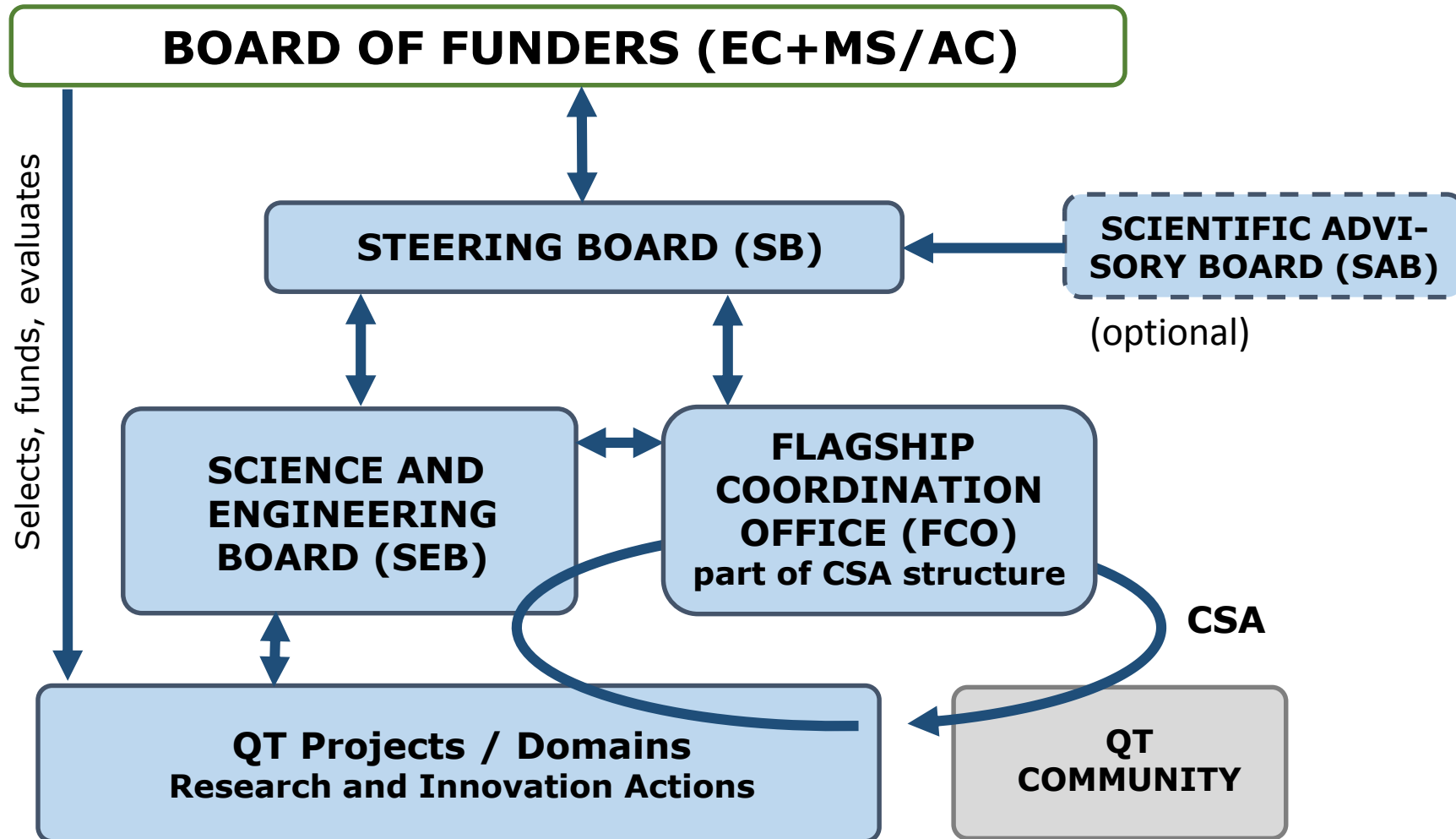
- Separation of strategic / coordination / operational level
- KPIs on program level
- Scientific Advisory Board



## **Change compared to running Flagships**

- New model with several projects
- A CSA for coordination of non R&I activities and community involvement

# Governance model for the QT Flagship



## Summary of HLSC discussion of Governance, April 21

- The governance structure as presented was generally agreed
- The final report will include minor adjustments to the graph (arrows, close interaction) and a more detailed description of the roles and responsibilities (“charta”)
- The SAB will be included in the final report as an option
- The general decision levels are:
  - Day-to-day decisions: Projects (for science) and FCO (for outreach, education, etc.)
  - Coordination between projects / within the domains: SEB
  - Coordination with community & national initiatives: FCO
  - Advice to BoF on strategic decisions: Steering Board
- Conflict of Interest is an important issue to be addressed in the composition of the SB but also in the review process
- The governance should be reviewed after the ramp-up phase by the SB

# Board of Funders – Program alignment and operation

## **Composition: EC + Representatives of MS/AC**

### **Main tasks:**

- Ensures alignment of programmes at different levels
- Oversees overall progress of the Flagship
- Discusses strategic views and options for the future development of QT in Europe

### **European Commission**

- Prepares strategic positioning and options for the future development of QT in Europe based on Steering Board recommendations
- Prepares EU work programmes based on SRA
- Organises EU calls, evaluations, selects projects (including ERA-NETs) & issues grants/funding
- Prepares Flagship assessment based on agreed KPIs and monitors EU project execution
- Prepares strategic IN-CO activities

### **National/regional funding agencies**

- Prepare transnational work programmes based on SRA
- Organise transnational evaluations and select transnational projects & issue grants/funding
- Monitor transnational project execution

# Steering Board – Strategy planning & advice

## **Proposed composition:**

**~20 members from academia & industry & RTOs (+ SEB Chair and FCO Director as permanent invitees)**

## **Appointed by: European Commission**

## **Main tasks:**

- Prepares & updates SRA
- Proposes KPIs for output and impact
- Oversees Flagship execution and reports to BoF on progress towards its goals
- Identifies gaps, provides recommendations for future to BoF

## **Interactions**

- Interacts closely with both SEB and Flagship Coordination Office
- Delivers reports with programme options to Board of Funders (MS+EC)
- Logistical support provided by Flagship Coordination Office (funded via CSA)

# Science & Engineering Board – Coordination of RIA

## **Proposed composition:**

**Coordinators of all EU-funded flagship projects (+ FCO Director as permanent invitee), elect among themselves a chair and six representatives for the Flagship domains and the cross-cutting topics Engineering/Control and Software/Theory**

## **Main tasks:**

- Oversees implementation progress of the Flagship's work plan
- Ensures coordination of the R&I activities between the different EU-funded projects
- Reports to the EC on overall performance and progress of the Flagship projects
- Proposes changes to the SRA taking into account scientific and technical advances/roadblocks

## **Interactions:**

- Advises Steering Board with focus on RIA
- In close consultation with Flagship Coordination Office
- Interacts with the EC
- Interacts with all the Flagship's governance bodies, as needed



# Flagship Coordination Office – Program coordination

**Proposed composition: Key actors of QT community, selected via EU call for CSA**

## **Main tasks:**


- Coordinates QT community networking & outreach
- Supports international cooperation (IN-CO) and organises IN-CO events
- Enhances overall dissemination and outreach at the level of the flagship
- Organizes workshops, concertation events, education & training, etc.
- Coordinates IPR management, standardisation
- Gathers KPIs, project outcomes & results, and inputs from QT community for the SRA
- Supports Steering Board (secretariat, logistics,...)
- Organizes benchmarking

## **Interactions:**

- Interface with EU, national, regional and transnational QT projects
- Provides input to Steering Board with focus on cross-cutting activities
- Constant communication and synergy with Science and Engineering Board
- Gathers data & analysis to Steering Board on portfolio and flagship progress
- Outreach to QT community at large / channels feedback from QT community

# Proposed Key Performance Indicators for QT Flagship

Strategic goal	KPI
Foster collaboration	Number of co-written publications between academia and industry
	Number of new collaborations, stimulated through FS activities, leading to joint projects/publications/patents/funding
	Funding from MS leveraged, compared to funding from EC
	Number of academia/industry workshops + attendees thereof
	Size of the QT community: Number of entities in QT database, hosted by CSA
	Number and total months of secondments (from industry to academia and vice-versa)
Stimulate innovation	Funding from industry / venture capital raised, compared to public funding
	Number of patents filed
	Number of demonstrators (TRL 4) and prototypes (TRL 6) built
	Number of spin-offs founded + those surviving the first 5 years
	Average TRL advancement compared to time, number of personnel and funding
	Number of standards co-developed by Flagship
	Market share of European QT
	Number of jobs created by European QT industry
Ensure scientific excellence	Number of papers published and citations
	Number of invited talks at scientific conferences
	Project evaluation results
Train quantum aware workforce	Number of PhDs and master students graduated, funded by Flagship
	Number of trainings organized + academic and industrial attendees thereof
	Educational programs and material created
Outreach	Number of positive articles/mentioning in public media
	Website traffic + social media interactions
Gender diversity	Number of females in management / WP leaders / PhD students / ...

 Preferred by HLSC

# Next steps

## **High-Level Steering Committee report**

- Finalize HLSC report until end of June 2017
- Final HLSC meeting and hand-over of report to EC in September 2017

## **Additional preparations for ramp-up phase**

- Prepare concept to align with national QT initiatives
- Prepare concept for outreach