

# Future and Emerging Technologies

## FET Work-programme 2016-17 FET Innovation Launchpad

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## FET WP2016-17, structure

- FET-Open – novel ideas for radically new technologies
  - FET-Open RIA
  - FET Open CSA (2016 and 2017)
  - **FET-Innovation Launchpad**
- FET Proactive – boosting emerging technologies
  - FET-Proactive emerging themes and communities
  - FET ERANET Cofund
  - FET ERANET Cofund in Quantum Technologies
- FET Proactive – High Performance Computing
  - Co-design of HPC systems and applications
  - Transition to Exascale Computing
  - Exascale HPC ecosystem development
- FET Flagships – tackling grand interdisciplinary science and technology challenges
  - Partnering environment for FET Flagships
- Other Actions
  - FET Flagship Core Projects (within FPAs)



**FETOPEN-04-2016-2017**

**NEW**

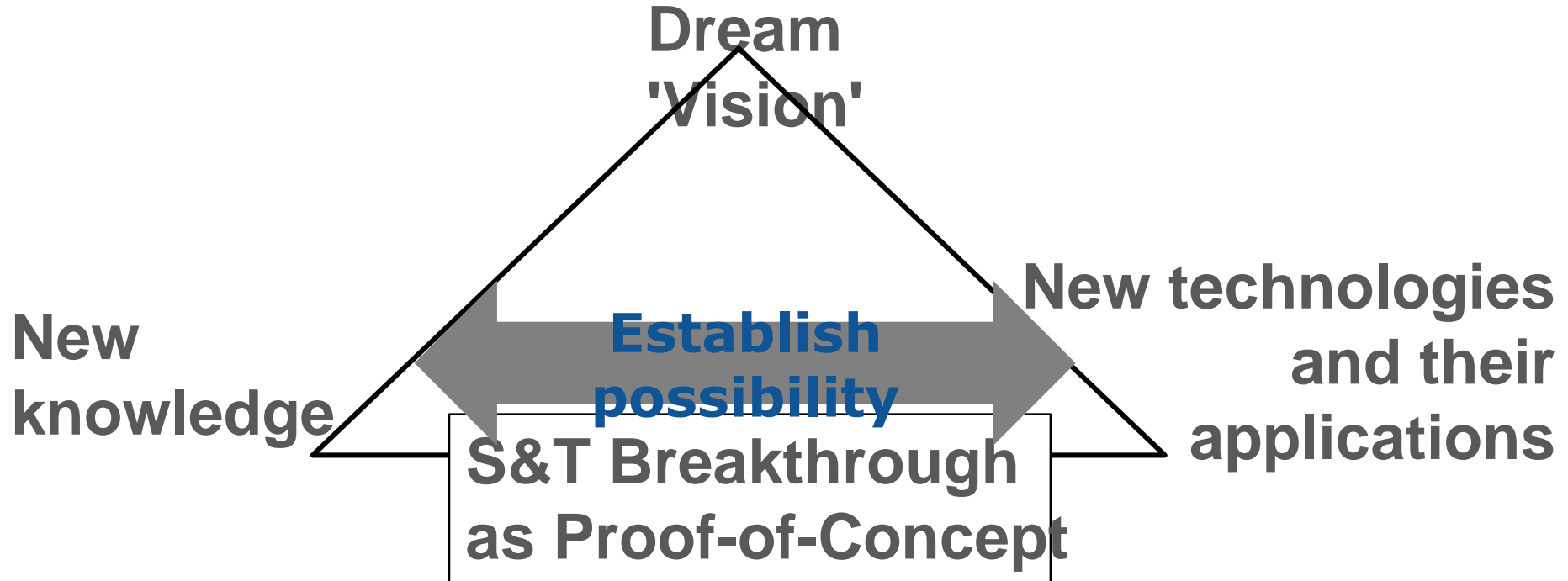
# FET mission



**New  
knowledge**

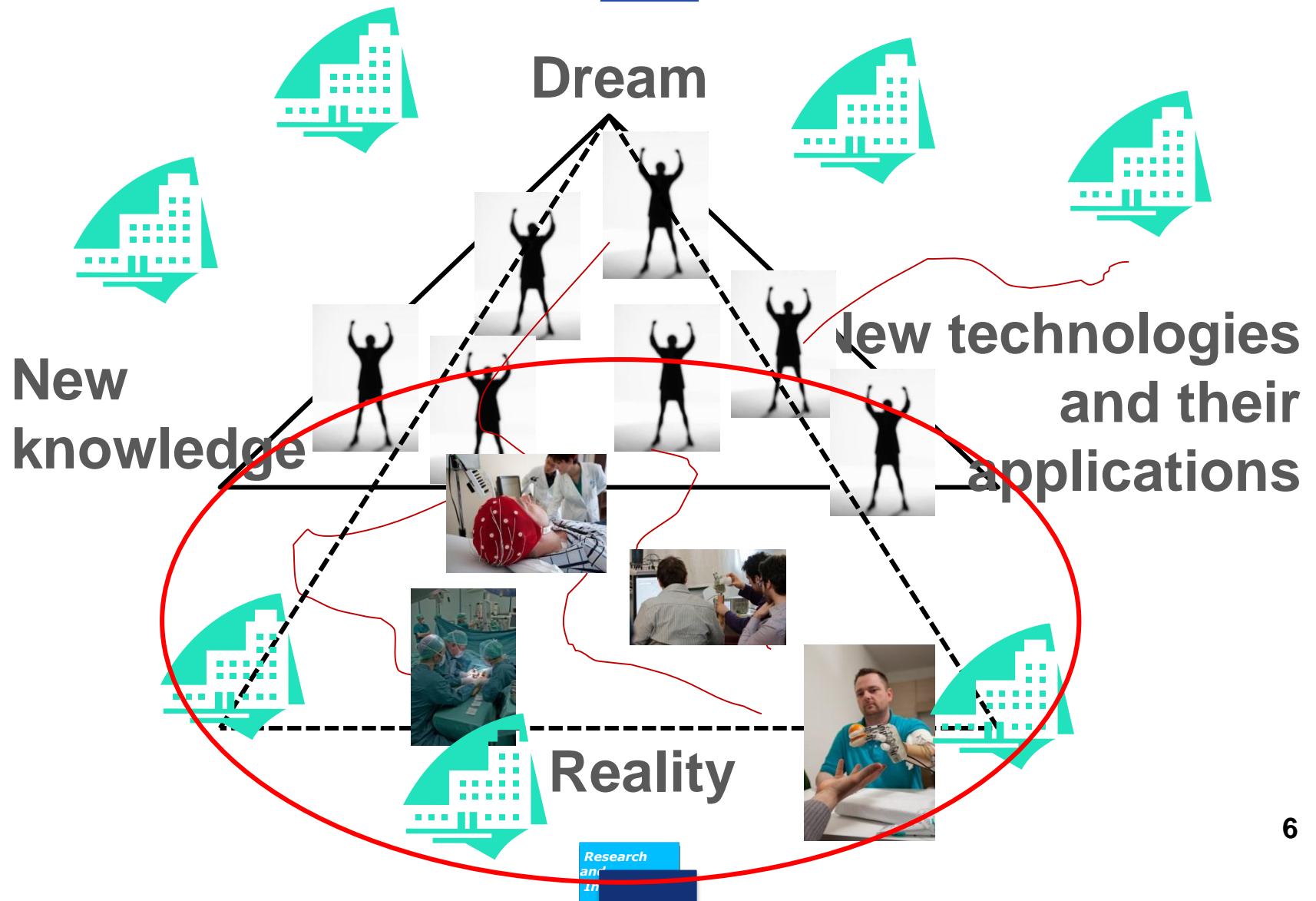
**New technologies  
and their  
applications**

# Stepping back: What is a FET project?



## Innovation from a FET project

- *Often not foreseen in original Grant Agreement*
- *Can be done through follow-up projects but takes a long time (which may be needed)*
- *Innovation may happen at the fringes of a project (a tool, a technique, an unexpected path)*
- *Entire consortium may not be interested*
- *Partners may not be the optimal vehicles to exploit*
- *An SME may not exist yet, or may have been created as a side-effect of the project only*
- *There may be enthusiasm to exploit, but zero experience to do so, especially in FET (e.g. a PhD student who wants to take something up but has no clue how to go about doing it)*



## FET-Open Innovation Launchpad

- *New topic in WP2016-17*

**This topic aims at funding further innovation related work (i.e. activities which were not scheduled to be funded by the original project) to verify and substantiate the innovation potential of ideas arising from FET funded projects and to support the next steps in turning them into a genuine social or economic innovation.**

- *Inspired by the successful ERC Proof-of-Concept (PoC) scheme*

# FET-Open Innovation Launchpad

- *Scope*
  - **Short and focused actions (18 months indicative)**
  - **Early innovation from an ongoing or recently finished FET project**
    - Ongoing or maximum 1 year from end-date of originating project to call deadline
    - FP7 and H2020, any FET-funded project
    - The link with the originating project is to be stated in the proposal
  - **No additional S&T research**
  - **No actions that are/were foreseen in originating project**
  - **No direct link needed with originating consortium**
  - **Single participant possibility**
  - **Assurance on necessary rights and agreement to be stated**
  - **No prescribed actions but 'fitness for purpose'**
  - **Complementary to ODI and SME schemes**



# FET-Open Innovation Launchpad

- *Scope*
  - **No prescribed actions but 'fitness for purpose', for example**
    - the definition of a commercialisation process to be followed,
    - market and competitiveness analysis,
    - technology assessment,
    - consolidation of intellectual property rights and strategy,
    - scenario and business case development,
    - developing contacts and support relevant activities with for instance, industrial transfer partners, potential licence-takers, investors, societal organisations or potential end users
  - **Complementary to ODI and SME schemes**

# FET-Open Innovation Launchpad

- *Expected Impacts*
  - **Increased innovation potential from FET projects** (is there evidence that the chance of succeeding will be increased through this action?)
  - **Creation of concrete innovations (start-up or otherwise)** (concreteness of the innovation idea to move closer to market than in the originating project)
  - **Stimulating entrepreneurial mindset in FET research world** (is this providing a strong role model for going beyond the research world)
  - **Seeding growth and the creation of jobs** (is there a credible pathway presented towards growth and jobs)

## FET-Open Innovation Launchpad

- *100K funding, 18 months indicative duration*
- *single step submission, '1+7' pages, specific eligibility, evaluation criteria, thresholds (3 / 3.5 / 3) and weights (40 / 40 / 20)*
- *2 deadlines*

Opening: 01 Mar 2016

**FETOPEN-04-2016-  
2017 (CSA)**

1.20M Euro

1.80M Euro

29 Sep 2016

27 Sep 2017

- *'eligible' originating projects for innovation launchpad:*
  - for the 2016 call: ~90 FP7+ ~60 H2020
  - for the 2017 call: ~50 FP7 & ~100 H2020
  - ~100 overlap between both calls
  - figures do not include HPC projects and the 2 flagships

## Some final remarks

- *FET CSA call in 2016 has a subtopic 'd. FET Innovation Greenhouse' looking to establish FET-specific innovation support services (including those that the Launchpad projects may use).*
- *FET-proactive projects may have a stronger inherent innovation dimension (expected impact: 'emergence of an innovation ecosystem around a future technology [...])'*
- *FET flagships have 'in house' innovation support activities.*

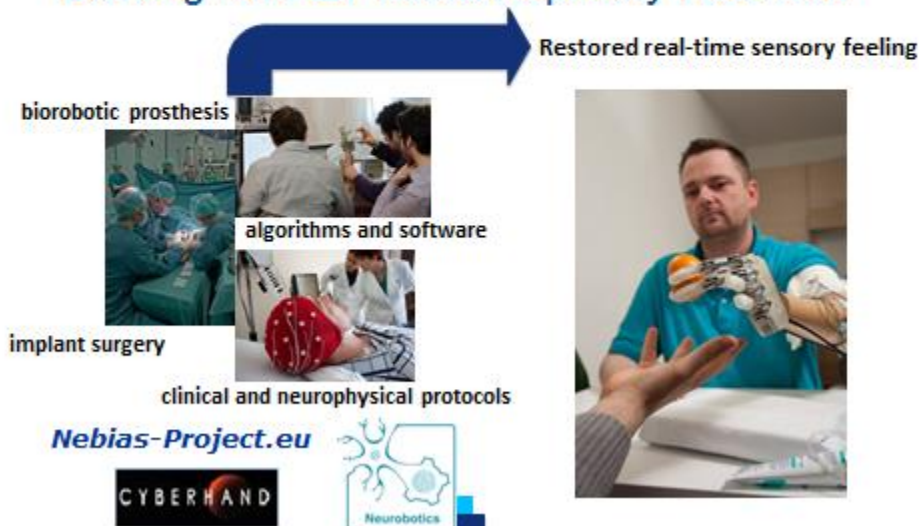


## Some final remarks

- *The message is not that it is not possible to get innovation within a FET project! Sometimes it does work (e.g., SME-driven projects).*
- *Innovation Launchpad is definitely not the only way to get more innovation out of FET projects.*
- *The important thing is not what happens in the Launchpad CSA, but what happens afterwards! A launchpad supports the launch.*
- *If the FET Innovation Launchpad leads to a change of mindset, a few spin-offs, commercial successes or gazelles, then it is a success!*



## Building on FET interdisciplinary research



## From science to future technologies



## InSphero in a Nutshell



### 3 years ago

- HQ in Switzerland
- 20+ employees (Switzerland/US)
- Working with 7 out of the top 10 pharma companies

BoC

### Today

- HQ in Switzerland
- Office and laboratory in the US (Brunswick, Maine) and office Germany
- 40+ employees (Switzerland/US)
- Working with 15 out of the top 15 pharma companies
- PerkinElmer distributes IS technology



# Innovation: FET can do it!



# RESEARCH & INNOVATION

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Your ideas

Background material

## Designing a European Innovation Council: A Call for Ideas

*Share your views - they will help shape policy*



# Thank you for your attention

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