Excellence Award 2013

Enabling Next GeneratIon NEtworks for broadcast Services

Jan. 2010 – Dec. 2012
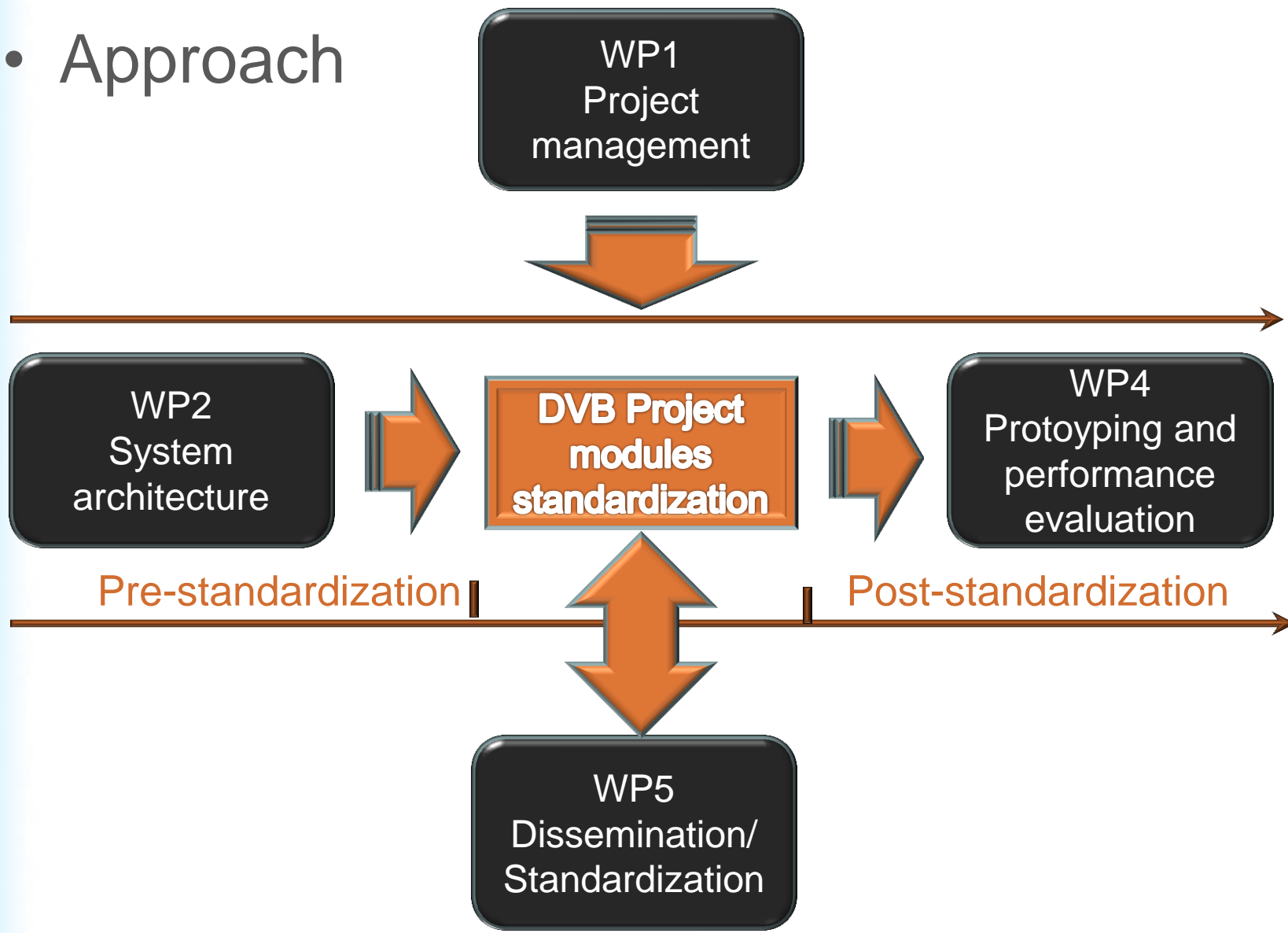### 13.4 M€/141.6 PY

Jani Väre

TELESTE

ENGINES

- Contribute to DVB-NGH and DVB-T2 Lite standardization:

  - Create and propose **technical concepts** for DVB-NGH

  - Verify and validate the **technical concepts** of DVB-NGH and DVB-T2 Lite

 - Verify and validate the **full DVB-T2 and DVB-NGH systems**

- Approach

WP1
Project management

WP2
System architecture

DVB Project modules standardization

WP4
Protoyping and performance evaluation

Pre-standardization

Post-standardization

WP5
Dissemination/ Standardization

Achievements

- 26 CfT proposals to DVB-NGH

- Over 130 technical contributions to standardization (DVB, OMA, CEPT)

- 18 Journal publications

- 57 conference publications

- One book

- 10 demos

- >15 prototypes, 13 commercial products, 8 product improvements
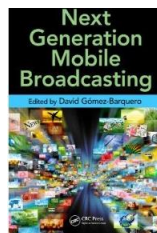
	DVB T2	DVB T2 Lite	DVB NGH
System architecture		✓	✓
Prototyping / Laboratory Validation	✓	✓	✓
Experimentation	✓	✓	

Next Generation Mobile Broadcasting
Edited by David Gómez-Barquero

Business Impact

- Over 15 new prototypes
- 13 new commercial products
- 8 improved products
- ROI between 0.5-55 (Based on estimates given by partner companies)
- One new start-up
- 21 new permanent jobs
- 6 new cross-domain co-ops

Other major impact

- Over 130 contriutions to the standardization
  - DVB, OMA and CEPT
- Over 10 Demos in several IT fairs (e.g. IBC)
- Over 75 publications to academic forums (e.g. IEEE)
  - Including 'Handbook of Next Generation Handheld', 700+ pages
- 11 MSc theses and 4 PhD theses
- One new start-up
- Stategically important regarding the spectrum efficiency in terrestrial broadcast networks

- DVB-T2 standard has so far adopted/deployed in 56 countries
- Elements and full specs of DVB-T2 and DVB-NGH have been proposed in ATSC 3.0 CfT by DVB project and some other parties