JEG-MOAVI project

Orange Labs

December 2012, Contribution for the Video Quality Experts Group (VQEG) Singapore Meeting

Version 1.0

Emmanuel Wyckens, Mikołaj Leszczuk, Silvio Borer

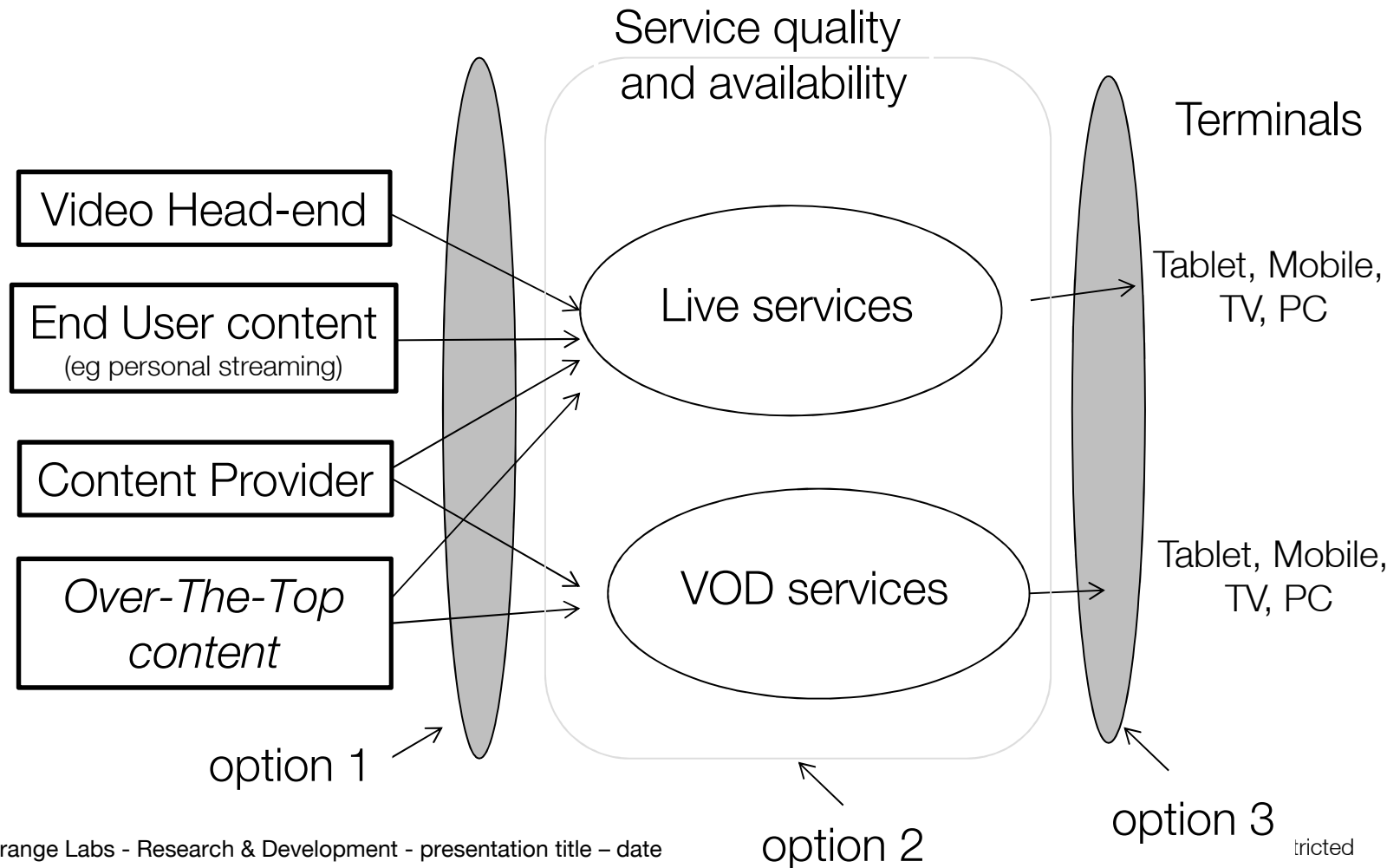Orange Labs, AGH University of Science and Technology, SwissQual

unrestricted

orange™

Potential usages

- Live and VOD Applications for Quality Control (QC)

Service quality
and availability

Terminals

Video Head-end

End User content
(eg personal streaming)

Content Provider

*Over-The-Top
content*

Live services

Tablet, Mobile,
TV, PC

VOD services

Tablet, Mobile,
TV, PC

option 1

option 3

option 2
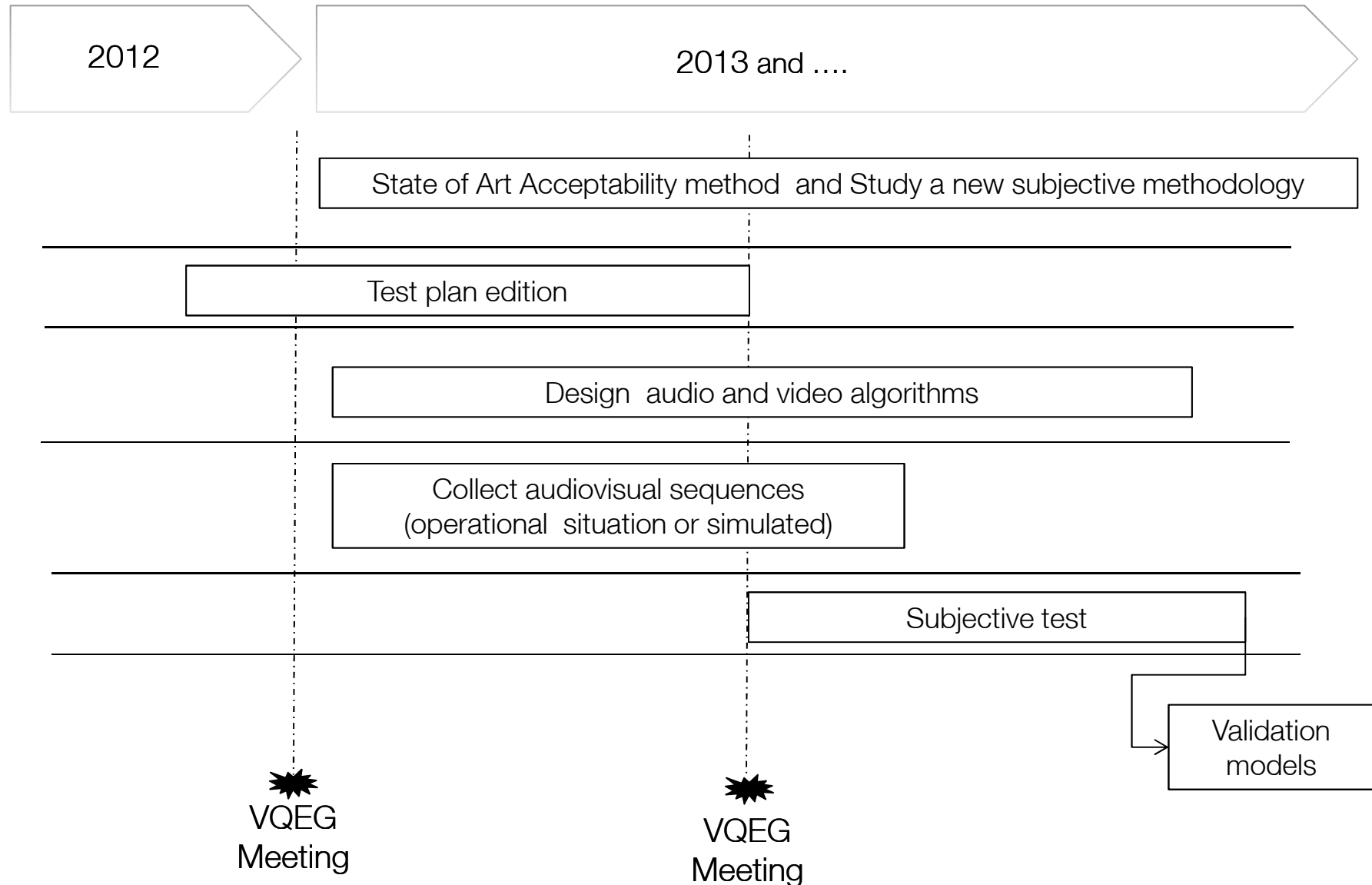
tricted

Proposal first step

- No reference model

- Focus only on basic list of audio and video artefacts appears most of the time

  - <u>S</u>imple <u>V</u>ideo <u>A</u>rtefact (SVA).

    - Freeze, Blockiness, Blur, iso luminance, Ghosting.

  - <u>M</u>ixed <u>V</u>ideo <u>A</u>rtefact (MVA).

    - Ghosting effect, freeze, blur, blockiness.

- Audio video database with at the minimun MOSv scores

  - Hybrid project ? Others projects, Qualinet ?

  - Free video sequences for SRC and HRC without MOS

Open issues

- MOS (SVA) versus binary acceptability (10s)

  - If state of the art can not answer, carry out subjective test

- Second step

  - In Parallel, Study a new subjective methodology for long video sequence

  - Today SSCQE (ITU.R BT 500) is not well adapted.

    - Response for scoring is not symmetric (latency when quality increase or decrease)

    - In previous tests done, the observers forget to score after 10 min

    - The instruction have to be adapted for long term

    - Based on overall acceptability of quality only and not on Quality scores or degradation scores

Timeline MOAVI project

2012	2013 and ….

State of Art Acceptability method and Study a new subjective methodology

Test plan edition

Design audio and video algorithms

Collect audiovisual sequences
(operational situation or simulated)

Subjective test

Validation models

VQEG
Meeting

VQEG
Meeting

unrestricted

thank you

Any comments ???

orange™