Use cases for HD testplan: format consideration

P. Le Callet, R. Pépion
Usual scenario

Fact
Final users have full HD or HD ready displays:
=> upscaling is mainly used

SRC
Pre-processing
 coding
 aggregation
transport

PVS
Post-processing
 decoding
Issues

Format (e.g; resolution p or i) of the SRC :
=> Mainly 1080i, sparsely 1080p

Format of the SRC’ :
=> Down scaling regarding bitrate issue

Format of PVS :
=> Up scaling
Typical study
(requested by industry)
proposal for HDTV Testplan

720p native is of limited interest since it will be upscaled...
... but is of interest as part of HRC (using down and up scaling) when viewed at 1080 resolution

⇒subjective testing could be conducted only at 1080 resolution
(e.g. models will see only 1080 SRC)

SRC issues :
- 1080i only
  pros: many available SRCs, faster testplan
  cons: scenario are missing
- 1080i and 1080p
  pros: more scenarios,
  cons: SRC (some 1080p SRC could be obtained from 1080i)
- 1080p only
  pros: models see only p format