



## Find answer to the questions that have been raised.

- Do SSCQE and DSCQS yield inherently different subjective scores?
- Are contextual effects and the lack of an immediate reference picture problematic for SSCQE?
- To what extent does previously viewed video impact the viewer's current opinion score in SSCQE?



- Methodologies
  - SSCQE, DSCQS and DSCS
- Orginal subjective experiments
- Meta-experiment

## Orginal subjective experiments

## Video sequences for the SSQE meta-experiment:

- Television systems
- A particular emphasis on MPEG-2 coding impairments
- Some of the video systmes inluded MPEG-1 coding
- VHS record/playback
- Multiple-generation dubbing with ½ inch professional tape recorders
- MPEG-2 bit-strems corrupted with digital erros.

Table 1 Original Subjective Tests				
Data Set	Method	Viewers	Video Clips	ITU-R BT.500-
One	DSCS	32	42	BT.500-3
Two	DSCS	32	105	BT.500-3
Three	DSCS	32	112	BT.500-3
Four	DSCQS	67	90	BT.500-8
Six	DSCQS	80	90	BT.500-8
Twelve	SSCQE	32	40	BT.500- 10



## Reproducibility of subjective ratings

- The SSCQE method produces a subjective rating every half second.
- The DSCQS and DSCS methods produce one subetive rating for each 8-10 second long video clip.
- One study examined both a 10 second averaging process of the SSCQE ratings and a non-linear averaging process.
- Another study found that the DSCQS subjective rating of a 30 second video clip is different than the average SSCQE subjective rating for those 30 seconds.

