

COSPAD EXPERIMENT @ ACREO

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EXPERIMENT DESIGN

- Passive 3DTV (Hyundai S456D 46 inch)
- Splitting PVS in two set of equal quality distribution
- Repeating SRCxHRC set as common set (Basket)
- Two viewing distances (3H and 5H)

	3H	5H
Group 1	VideoSet A	VideoSet B
Group 2	VideoSet B	VideoSet A

USED SCALES

Rate the following properties of the video sequence

Video quality	Visual discomfort	Sense of presence
<input type="radio"/> Excellent	<input type="radio"/> No discomfort	<input type="radio"/> Excellent
<input type="radio"/> Good	<input type="radio"/> Strange feeling, but not uncomfortable	<input type="radio"/> Good
<input type="radio"/> Fair	<input type="radio"/> Slightly uncomfortable	<input type="radio"/> Fair
<input type="radio"/> Poor	<input type="radio"/> Discomfortable	<input type="radio"/> Poor
<input type="radio"/> Bad	<input type="radio"/> Very uncomfortable	<input type="radio"/> Bad

OK

TEST SUBJECTS

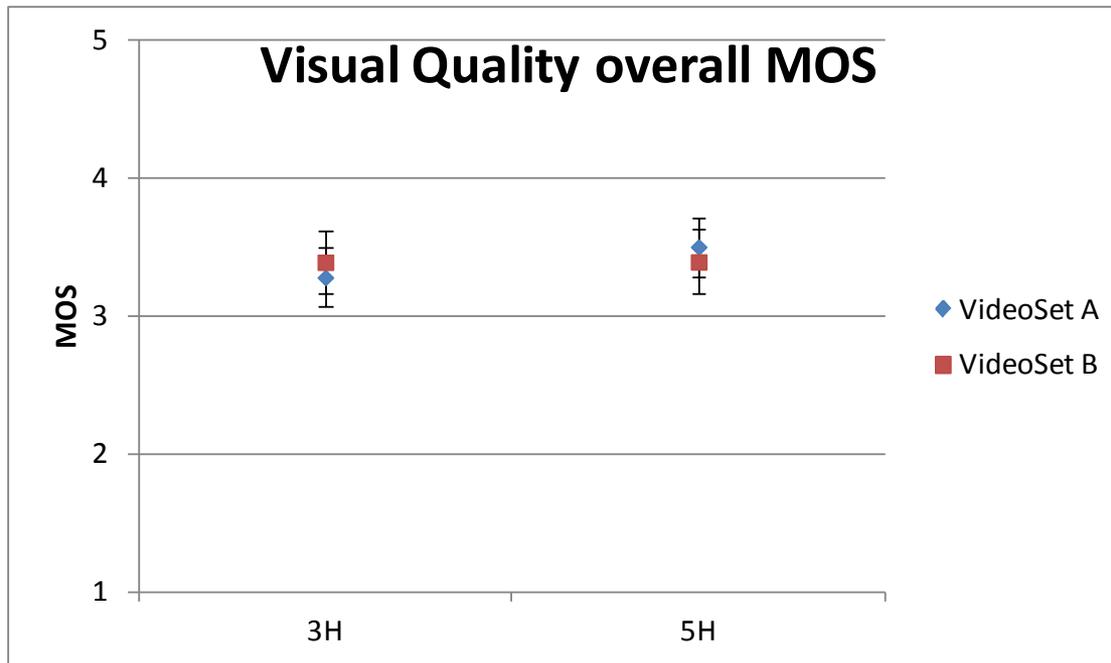
- mean 33.7, median 29, max 62 and min 18
- 14 Swedish subjects and 14 international
- 1 pre-screened and 3 post-screened

CROSSLAB CORRELATION

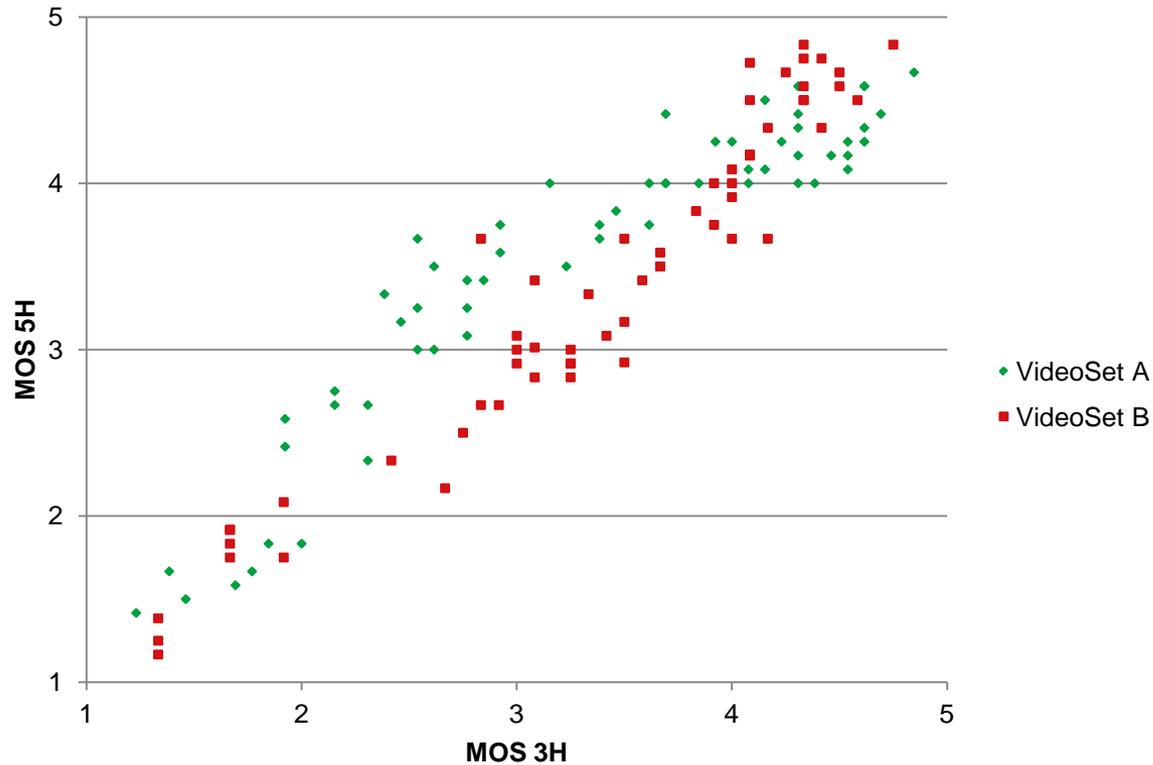
	FRA	KOR	SWE
FRA	1,00	0,97	0,98
KOR		1,00	0,98
SWE			1,00

QUALITY @ 3H AND 5H

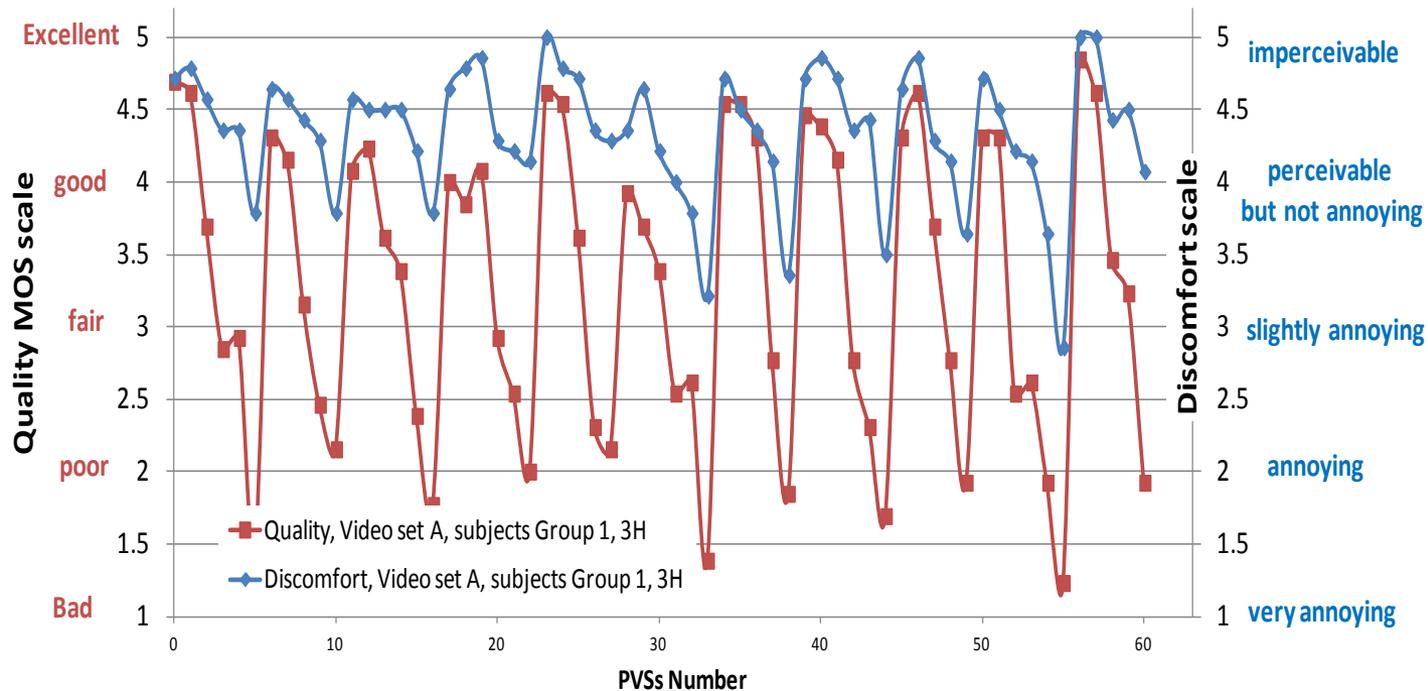
- Analysis only separate (so far)
- Difference non-significant



QUALITY @ 3H AND 5H

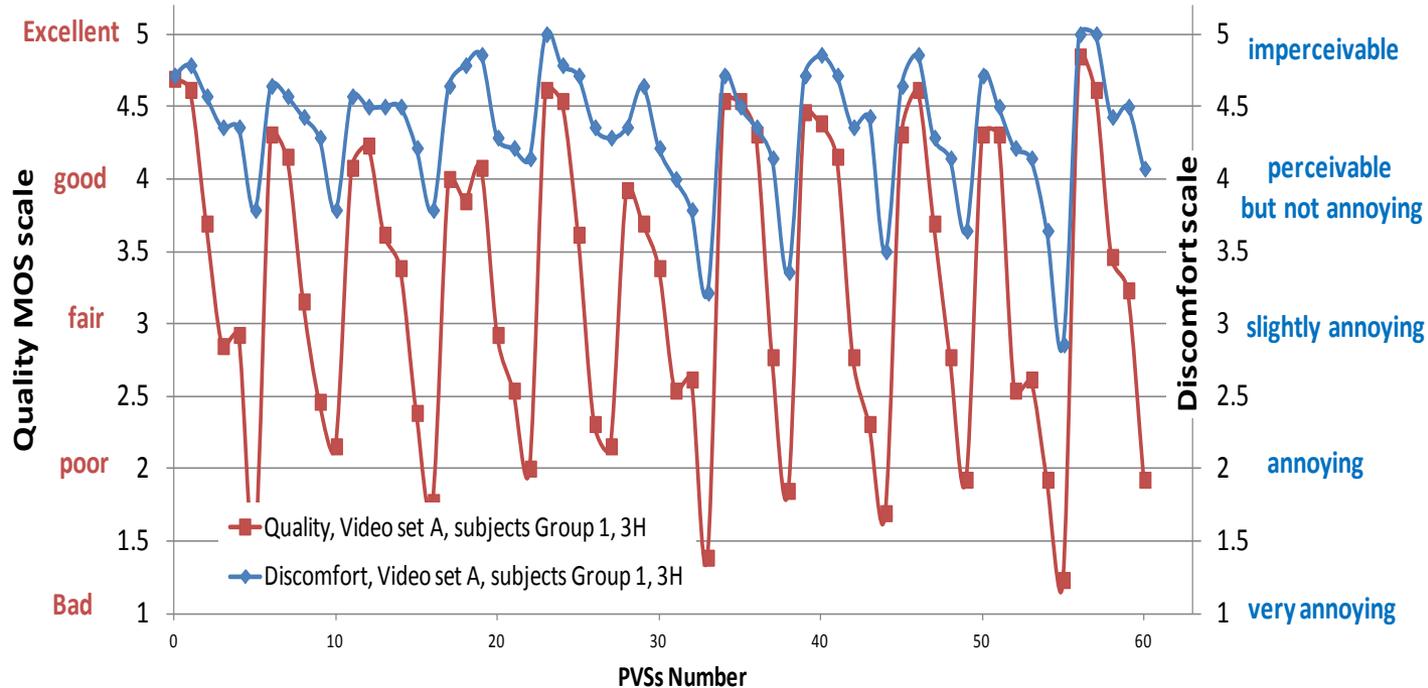


QUALITY VS DISCOMFORT



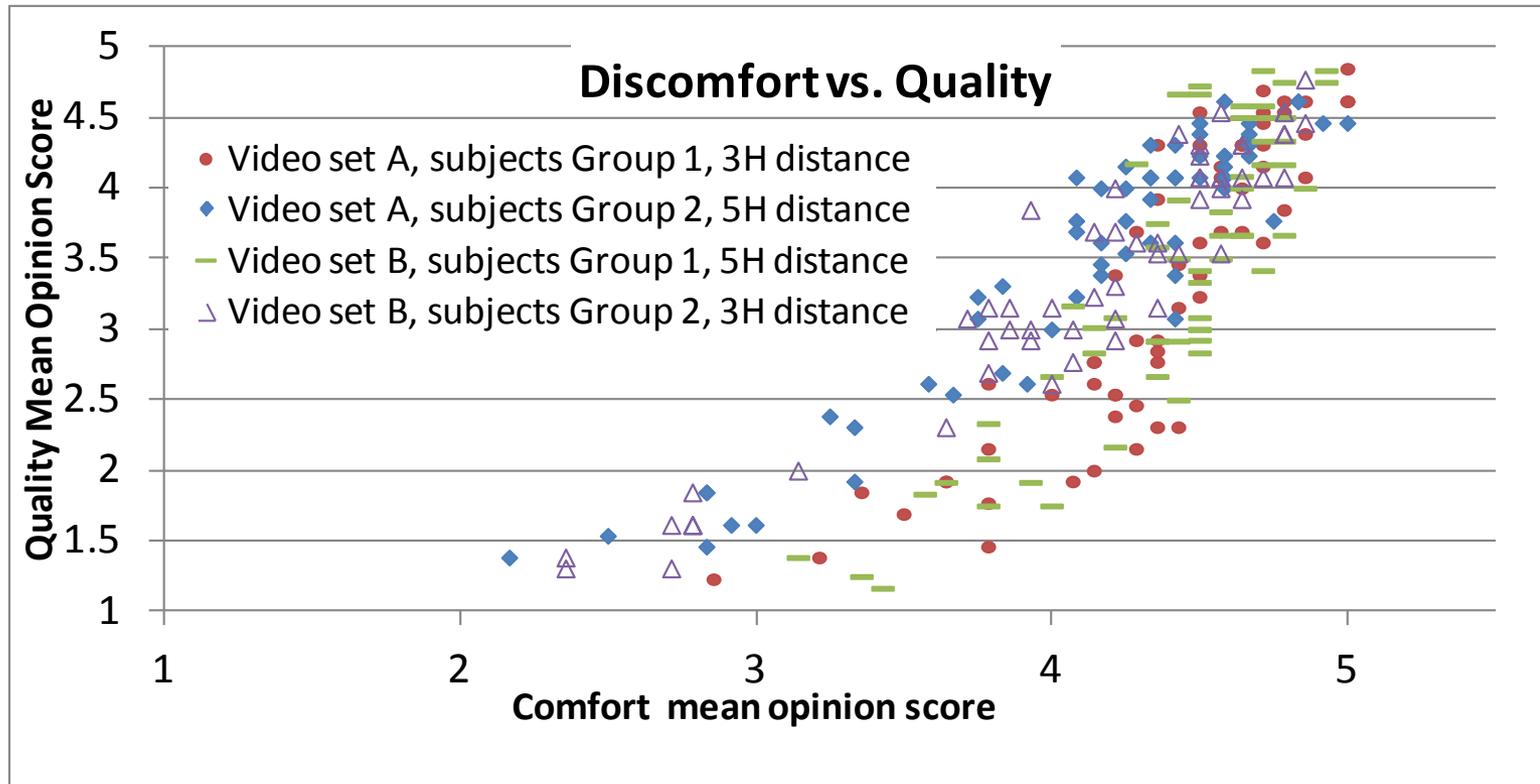
Correlation: 0.87 for 3H and 0.95 for 5H

QUALITY VS PRESENCE



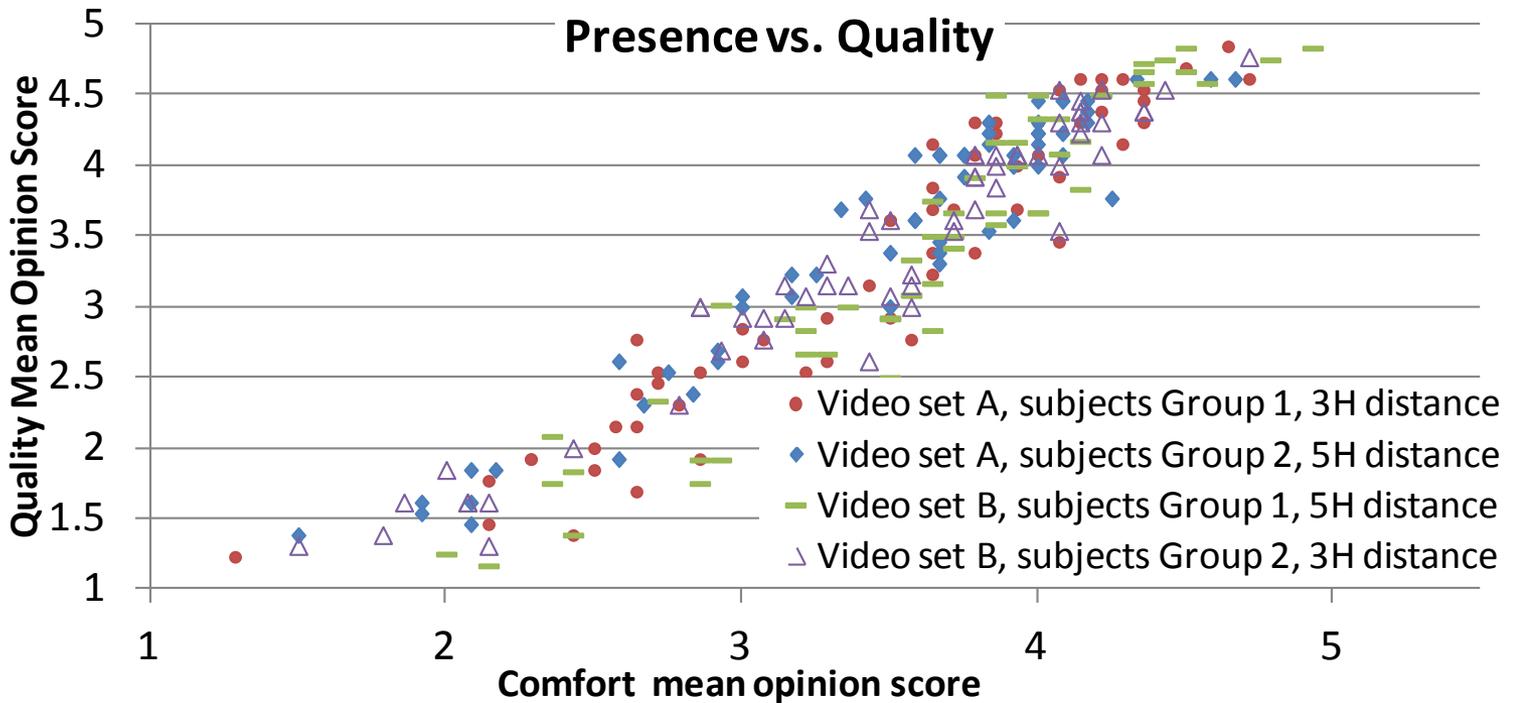
Correlation: 0.86 for 3H and 0.93 for 5H

QUALITY VS DISCOMFORT



Significant difference between Group 1 and Group 2 in discomfort

QUALITY VS PRESENCE



No Significant difference found

CONCLUSIONS

- No significant visual quality difference: 3H & 5H
- In questionnaire a majority preferred 5H
- Close relation between different scale
 - Likely due to the conditions are not demanding enough
- Group 1 discomfort ratings significantly different each other (Questionnaire supports that)