

**RI  
SE**



# SAM Plan and Mult

*Kjell Brunnström, Marcus Barkowsky*

Research Institutes of Sweden  
**RISE ICT**



# Multiple comparisons and planning number of test subjects

- Planning and design a subjective test based on the expected power in the statistical analysis, the estimated variance and the number of comparisons, the needed number to test subjects can be estimated.
  - Journal paper: Brunnström, K. and M. Barkowsky, *Statistical quality of experience analysis: on planning the sample size and statistical significance testing*. Journal of Electronic Imaging, 2018. **27**(5): p. 11. PDF <http://www.diva-portal.org/smash/get/diva2:1252987/FULLTEXT01.pdf>
  - ITU-T contribution: P.1401 will be updated, P910, P.913 and BT.500 is still under discussion
  - R-code: <https://github.com/VQEG/number-of-subjects>
  - GUI: <https://slhck.shinyapps.io/number-of-subjects/> (by Werner Robitza)

**RI  
SE**



**THANK YOU!**

Kjell Brunnström

[kjell.brunnstrom@ri.se](mailto:kjell.brunnstrom@ri.se)

Research Institutes of Sweden

**RISE**

