

NO-REFERENCE METRICS - VQEG

OH, THE PLACES YOU'LL GO....

$d=25'$
Light = "red"
 σ/\sqrt{n}

$d=9' 6''$
 $\sigma=.5''$

$\sigma=.6''$

σ/\sqrt{n}

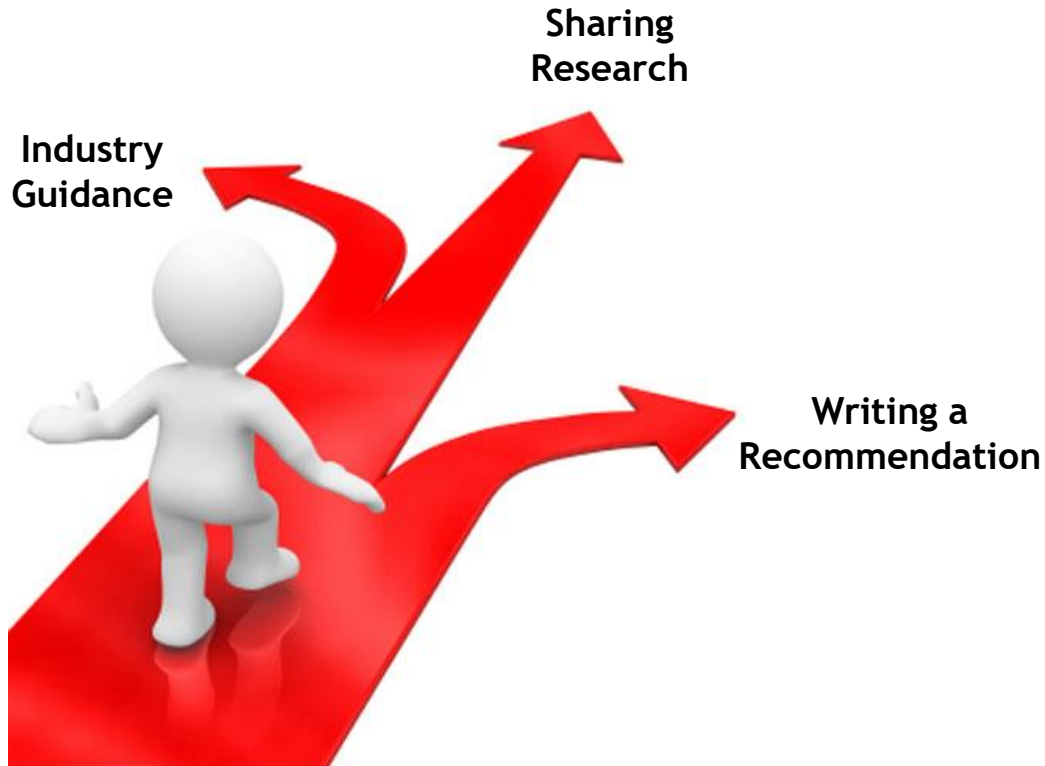
σ/\sqrt{n}

$d=2' 6''$
 σ

Jeremy Bennington
November, 2018

$d=2' 6''$
 σ/\sqrt{n}

What Direction?



NORM Solution Areas / Markets

- Entertainment
 - Video Services
 - Social Media
 - VR/AR
- Industry
 - Telecon
 - Computer Vision
- Public Safety & Health
 - Medial
 - First Responders
- Transportation
 - Computer Vision
 - HMI

What markets have clearly defined needs/gaps, that need to have recommendations developed?

- **What's the business need?**
- **Why hasn't it been solved?**
- **What needs to be part of a standard/recommendation vs. product?**
- **Does VQEG have representation from the "consumer" of the solution?**

Strategic Discussion

- There hasn't been much activity between F2F meetings
 - Few calls
 - Few presentations
 - Limited participation
- Who needs No-Reference Metrics?
 - Do they know they need them?
 - Are they asking for a solution?
 - Are there alternatives? (in use or in development)
- What do we want to accomplish?
 - Is it a recommendation, or support of other SDOs?
 - Who's going to do the work?
 - What can we accomplish?
 - Is it research collaboration?

Jeremy's View:
NORM fills the gaps between parametric and Full Reference methods.

Agreeing on methodology to match subjective (MOS) has hampered No-Reference for decades?

NORM Solution Areas / Markets

- For writing a recommendation, let's either “hibernate” or “hunt”

HIBERNATE

- Do we need a “study” phase to ask industries & SDOs to identify gaps (rather than us)?
- Do we need new resources/participation in VQEG?
- What would the requirements be to leave hibernation and hunt?

HUNT

- What can we accomplish in 6 months?
- Who represents the “consumer” that can guide decisions & provide narrow set of requirements?
- Who has organizational commitment, resources, & can commit?

