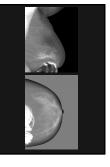
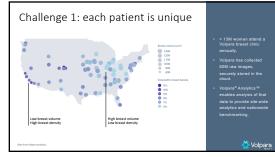


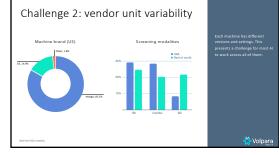
## AI must work with a wide range of variables:

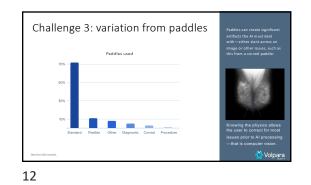
- Breast size and tissue composition
- X-ray machine types and settings

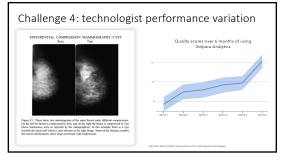
- Technologist factors, e.g., compression, positioning, artifacts
- Image processing (if not using raw x-ray images)

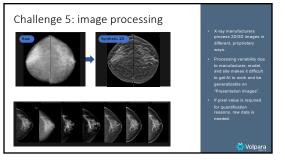


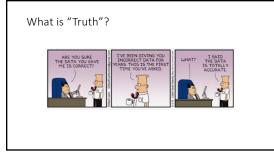


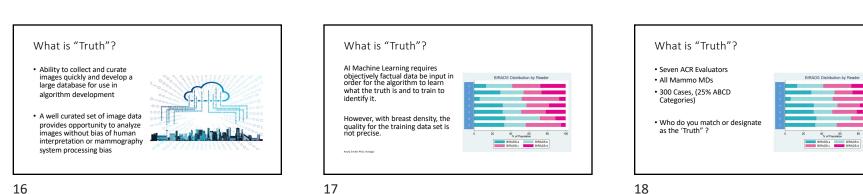


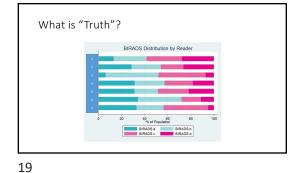


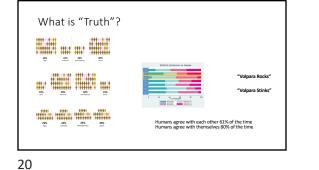


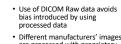




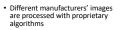






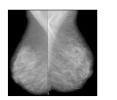


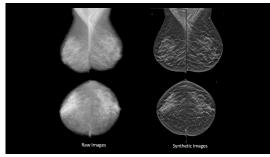
What is Truth?

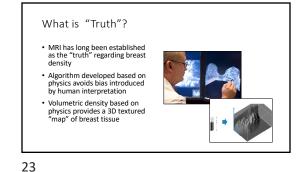


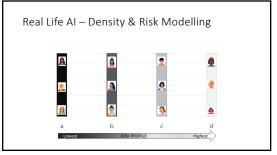
 The same manufacturer will change processing algorithms

21





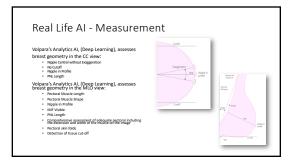




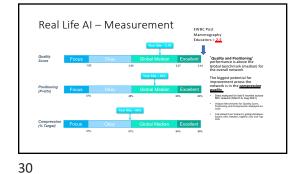


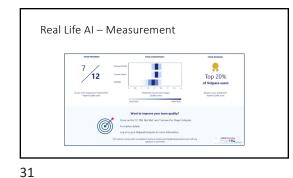


Bassett 1993	Huppe 2018	Volpara 2021
6 Technologists	5 Technologists	3,600 Technologists
6 Technologists	5 Technologists	3,600 Technologists
1,000 Mammograms	340 Mammograms	50,000,000 Mammograms





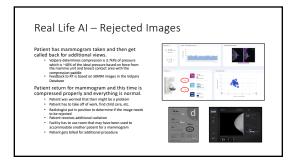


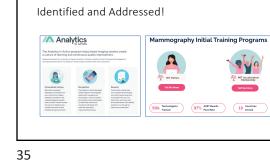


Real Life AI – Measurement



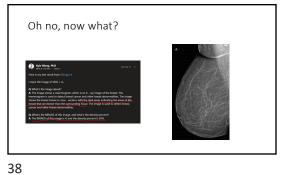














39

## Take-aways

- AI, Machine Learning, Deep Learning are not going away
- Al is not evil but not yet ready for prime-time
- Computers don't come into a situation and ever leave so embrace the technology – you won't win the fight
- Just because a product or service uses AI does not mean something is automatically good or even better than it used to be
- Well sorted data and "truth" is key to the use of AI in medical imaging

