

2020 Vision - Visualization

2015



NOAA Terraviz

SOS Explorer
- desktop based



Global - NEIS



SOS
- venue based

2020+

Terraviz:

- Tablet, Phone, Immersives
- 3 and 4D
- Beyond mouse interactivity



Image: Microsoft



Image: clowe2014.wordpress.com

SOS Explorer

- 1000s of classrooms
- 100s of public venues
- Real-time and high res data
- Easy user content builder



NEIS

- Big data from many clouds
- In use across NOAA
- In use by Fed and private sector

SOS:

- 4K revolution
- Large High-Res library
- Personalization and Interactivity
- Automated quality

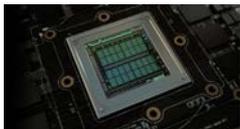


2020 Vision – HPC and IT Systems

2015

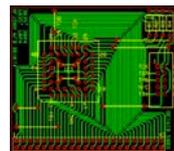


CPU &
MPFG

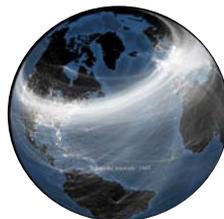


Anytime, anyplace,
any platform

2020+



MPFG Computing and CPU Operational side-by-side
MPFG programming tools matured
Great migration of code from CPU to MPFG underway
GSD looking to next generation compute architectures (FPGA?)



Global to Local data from the ground up
MADIS tech is central in NOAA Operations

- Data delivery - seconds v. minutes
- Operational data today! – the light switch works

Selected data defined by and tuned to user needs

NEIS Data Services

- Cross cloud directed search and find
- On the fly data processing and analysis