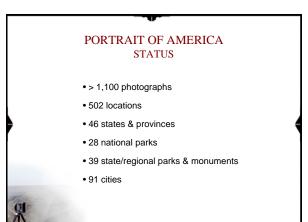
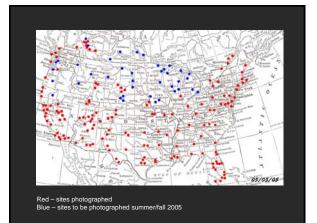


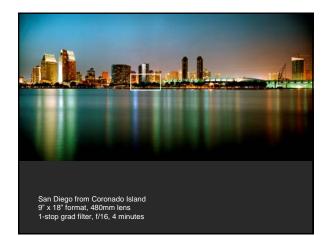
SCANNINCS & PROCESSING e.scanse: Leica Geosystems DSW700 (2000-4000 pp) e.scanse: Leica Geosystems DSW700 (2000-4000 pp) e.scanse: Leica Geosystems DSW700 (2000-4000 pp) mote State Mark State Sta



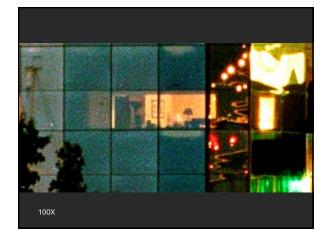


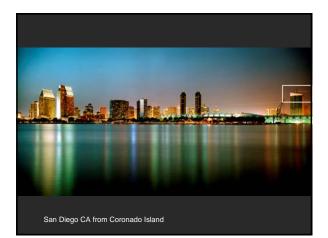








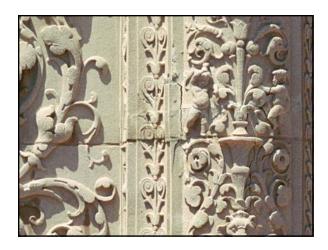


















NOISE REDUCTION Structured noise addressed via straightforward FFT routine Random noise (grain related) Favorable ratio of smallest image feature to grain density Wavelet-based image decompostion and reconstruction Superior to standard Photoshop™ plug-ins Less effective than elaborate movie industry techniques (CINESITE, etc.) Well suited to images in the 1-4 billion pixel regime





THE GIGAPXL PROJECT

Near-term objectives (1-2 years)

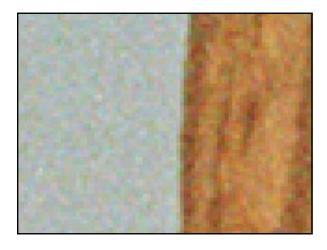
- Maximize the information content of photographic images
- Generate an ultra-high-resolution portrait of North America
- Disseminate images for use and enjoyment by others

Long-term objectives (3-6 years)

- Expand to world-wide coverage
- Provide future generations with an archive of sites
 which cannot be physically preserved

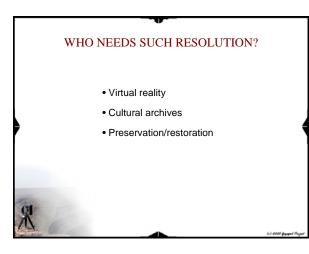


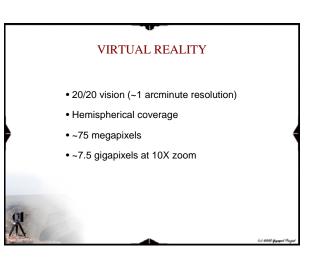












CHOICE OF FOCAL LENGTH

- Focal length too short, film resolution dominates
- Focal length too long, atmospheric blurring dominates
- Distant landscapes (5-20 km)

CI A

- Matched focal length 200-300 mm
- Ultra-wide angle for 9" x 18"
- Typical cityscapes (0.1-1.5 km)
 - Matched focal length 400-600 mm
 - "Normal" lens for 9" x 18" format