Online, Interactive, 4D Virtual Museum

Innovative GIS and Interactive Capabilities

Interactive Recreation & Cultural Sites

A hallmark of the Arizona Experience is the innovative open-source GIS capabilities displayed in the interactive Recreation & Cultural Sites Map (left) and Iconic Landscapes Map (below).

General Information on the Maps:
- Served via GeoServer
- Open Geospatial Consortium (OGC) compliant WFS/WMS
- Tilestream & Leaflet
- Hosted on a virtual Amazon Server
- Basemaps are Open Street Map or Custom

Complex time-enabled applications are also deployed, such as the Timeline Map which steps through Arizona’s history.

Recruitment & Cultural Sites Map
- Collaboration between the AZ Office of Tourism and AZ Council for Enhancing Recreation & Tourism (ACERT)
- Access to 425 recreational, historical, and cultural sites
- Faded, State, Tribal, and Privately held lands
- Pop-ups for each site provide:
  - Location
  - Website links
  - Resources offered by the location
  - Directions
  - Images of the location (e.g. Tonto Natural Bridge State Park to the right)
- Planned map additions include astronomical observatories and over 100 archaeological sites.

Iconic Landscapes Map - 3D fly-throughs
- Incorporates dynamic fly-throughs, Google images, and videos of Arizona’s landscape
- Fly-throughs using Microsoft LayerScope include facts and information about Arizona’s iconic landscapes such as the Grand Canyon, Monument Valley, Kitt Peak, Vortex Caverns, Saguaro National Park, and more.
- Music accompanies the fly-throughs
- GigaPans allow you to zoom in on photos to the tiniest detail

Contact Information & Acknowledgements

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- Helios Foundation
- Microsoft Research

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Engaging Educators

Imagine Arizona
Lesson Plan Contest

Follow the Learning buttons to K-12 lesson plans approved by the AZ Department of Education for use in the classroom.

In addition to finding prepackaged curricula, teachers are challenged to build and implement an original three to seven day lesson plan unit that incorporates content from the Arizona Experience. We strongly encourage the use of World Wide Telescope LayerScope, a free online visualization tool.

Contestants must submit their entries by 5:00pm on Sunday, March 30, 2013. Entry information is available at www.arizonaeexperience.org under the “Teachers” category, or by scanning the QR code.

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Bringing Science into the Home & Classroom

Interactive timelines add new dimensions to science and history.

View Arizona from the Mesozoic Epoch to the Late Proterozoic through Dr. Ron Blakey’s (NAU) geologic timescapes displayed in a slide show timeline or downloadable PDF (left).

In the Mineral History Timeline (below) users can visualize the sequence of mining events that shaped Arizona.

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