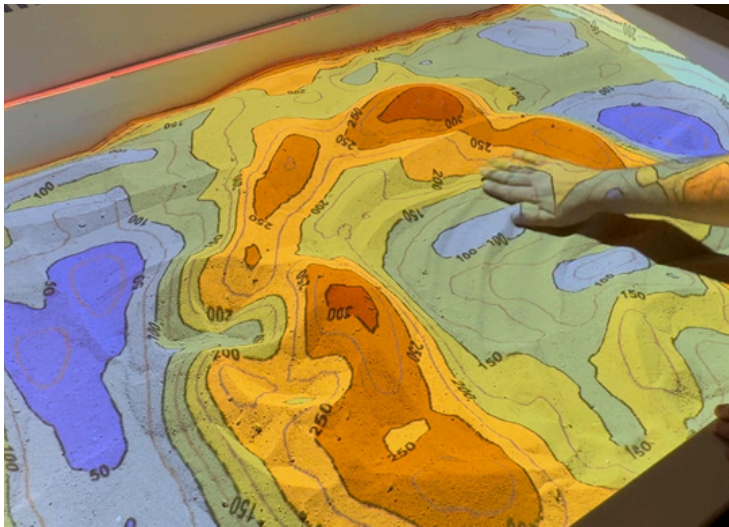


AUGMENTED REALITY SANDBOX



ASFAN

Full-width image of the sandbox with topographic projection



What Is the Augmented Reality Sandbox?

The AR Sandbox combines real sand with cutting-edge augmented reality to create an interactive, immersive simulation of topography, water flow, fire behavior, wind patterns, and more.

It consists of a sand table, a depth scanner, and a digital projector. The scanner captures the real-time shape of the sand surface, while the system dynamically calculates and projects contour lines, elevation colors, and realistic simulations onto the sand in real time.

Back – Features, Simulations & Customization



Contour & Elevation Mapping

Create real-time topographic contour lines and elevation maps by shaping the sand.



Water Simulation

Accurately simulate water flow based on terrain — define water sources and observe how it fills low-lying areas.



Geological Fault Simulation

Display how geological faults form and shift, based on input data and terrain.



Wind & Pollution Simulation

Visualize wind movement and how pollution might disperse over different terrains.



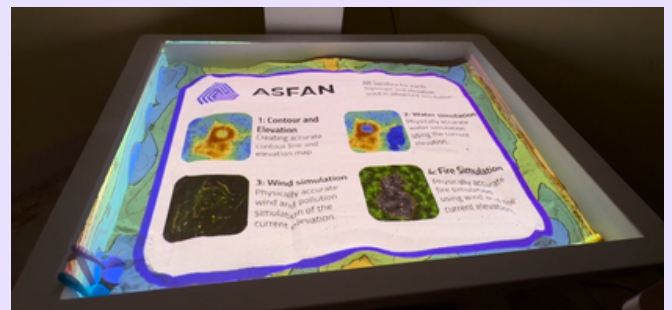
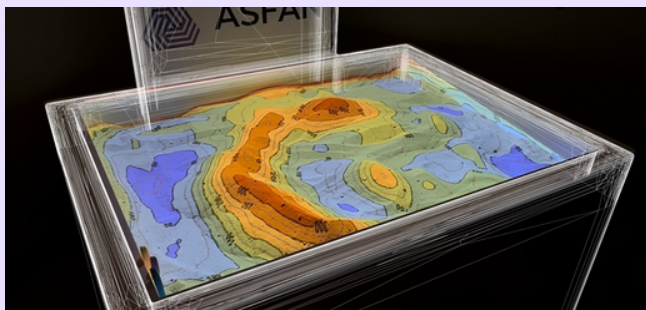
Geological Survey Simulation

Simulate geological scanning of a real area using elevation and soil data.

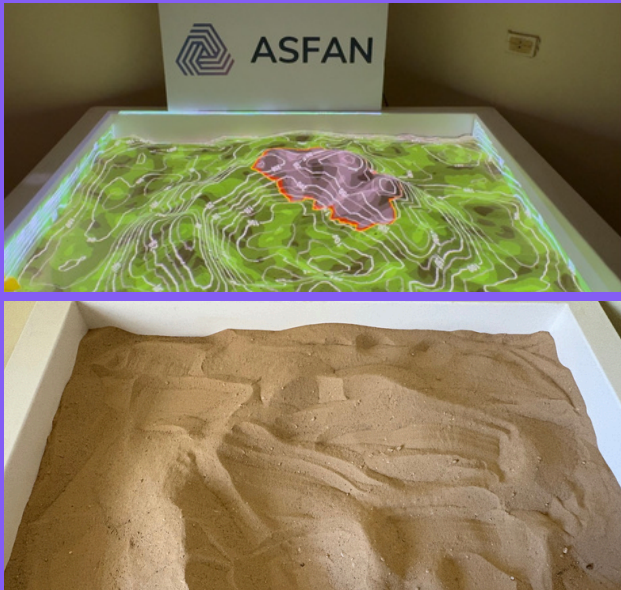


Fire Simulation

Define a fire starting point and simulate how it spreads based on slope and wind conditions. Customize: wind direction, speed, and scale.

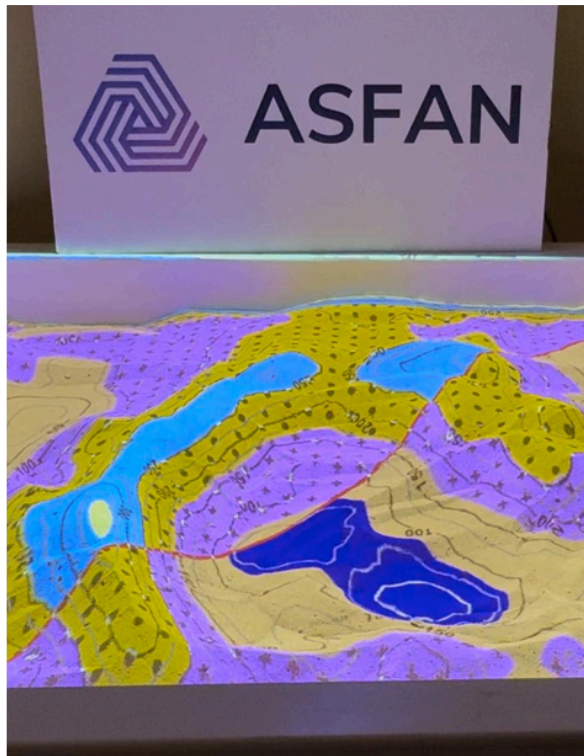


BRING EARTH SCIENCE TO LIFE — WITH YOUR HANDS



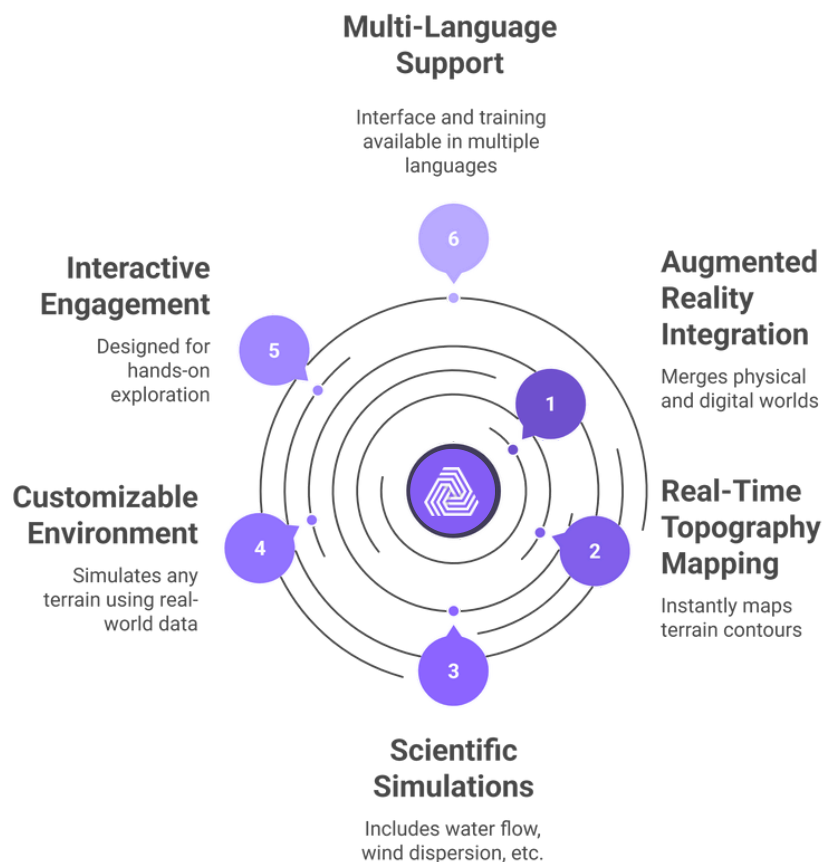
Perfect for:

- STEM education
- Environmental science
- Disaster preparedness training
- Research institutions
- Museums and public exhibits



FEATURES & CUSTOMIZATION OPTIONS

Why Educators and Researchers Love the AR Sandbox



We tailor every system to match your needs:

- Local terrain simulation (based on elevation data)
- Simulated weather, disasters, and environmental impact
- Language localization
- Educational scenario design

