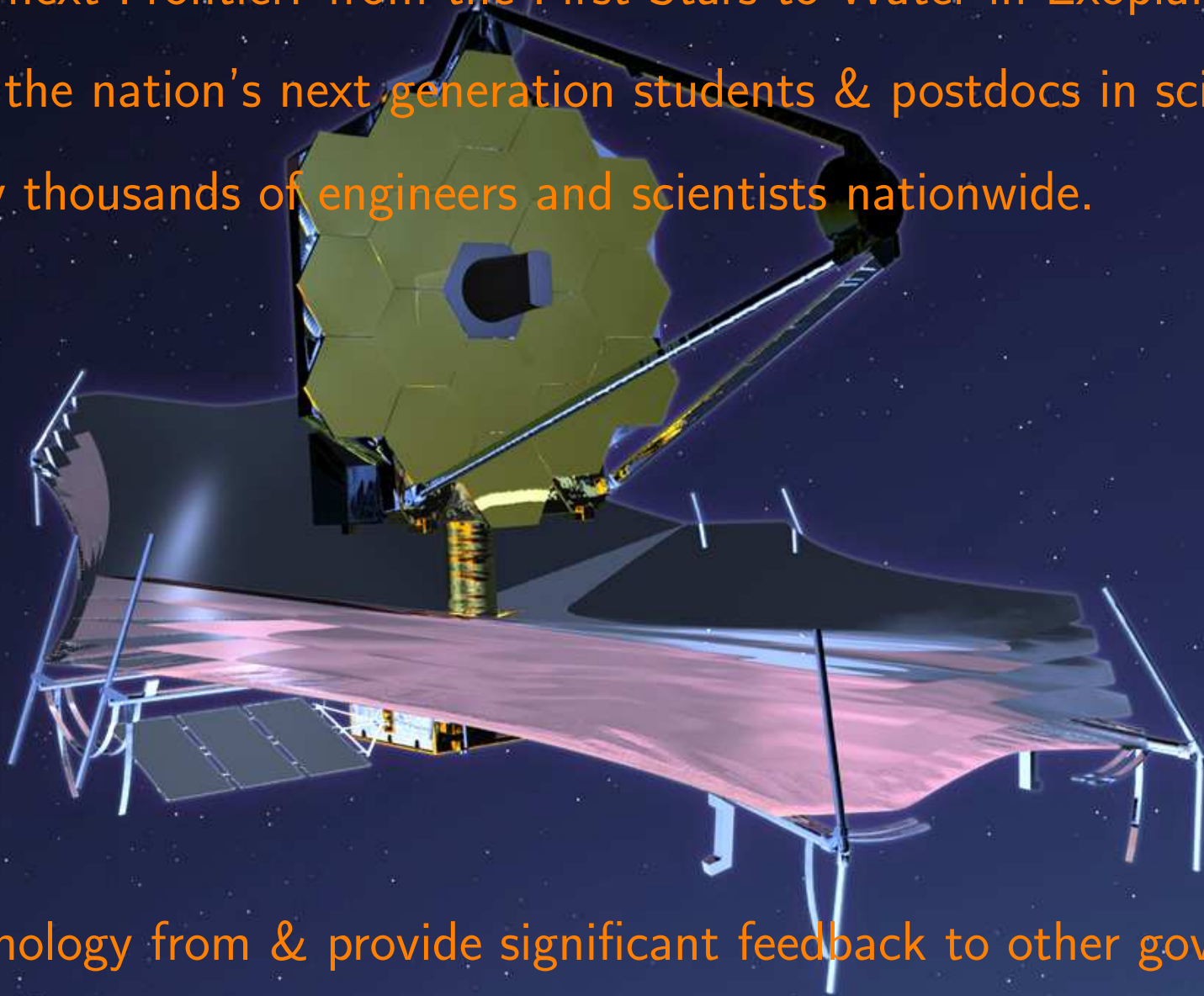


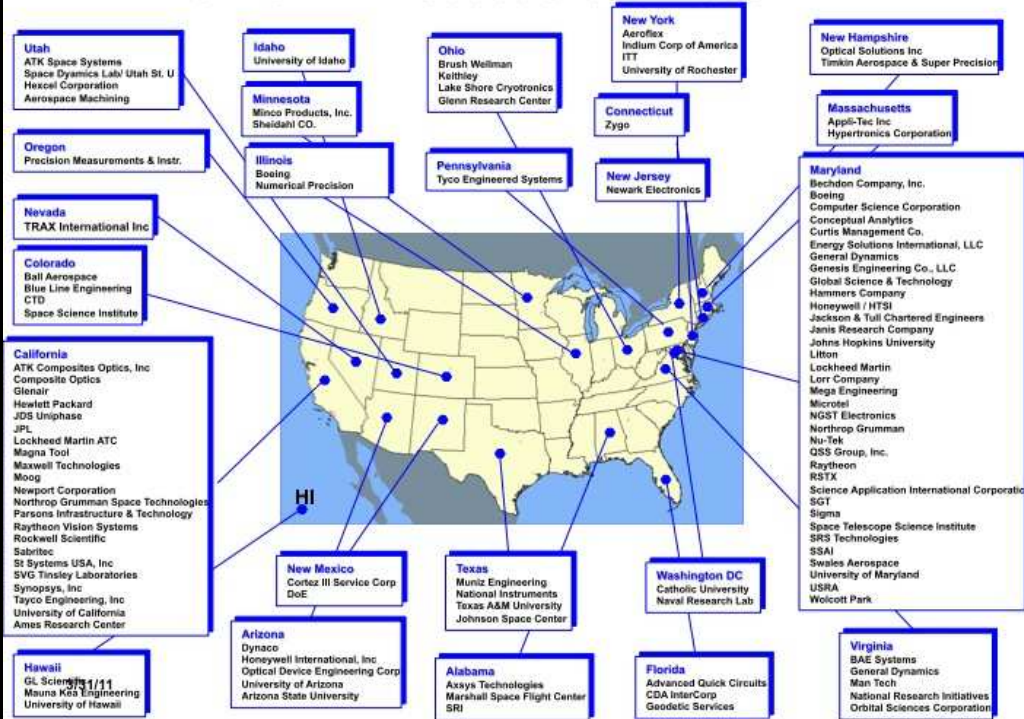
The NASA James Webb Space Telescope (JWST) will:

- Be NASA's next Flagship Mission after Hubble retires mid-decade.
- Be the next Frontier: from the First Stars to Water in Exoplanets.
- Inspire the nation's next generation students & postdocs in science.
- Employ thousands of engineers and scientists nationwide.

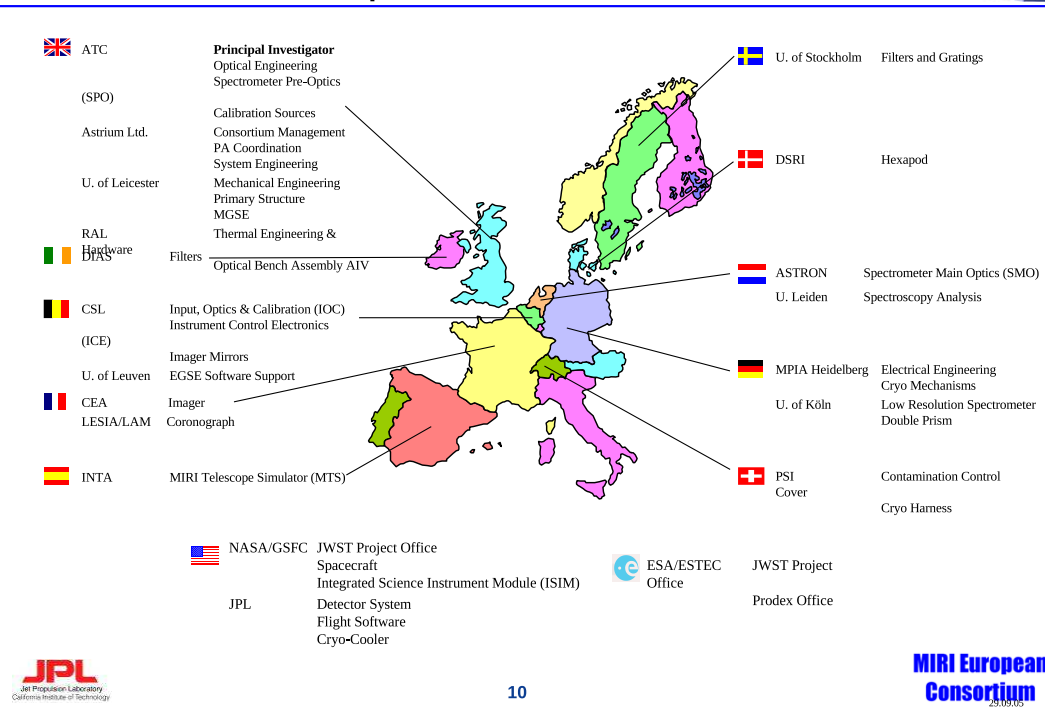


- Use technology from & provide significant feedback to other govt branches.
- Keep the US technologically ahead of foreign competition (esp. China!).

JWST: A Product of the Nation

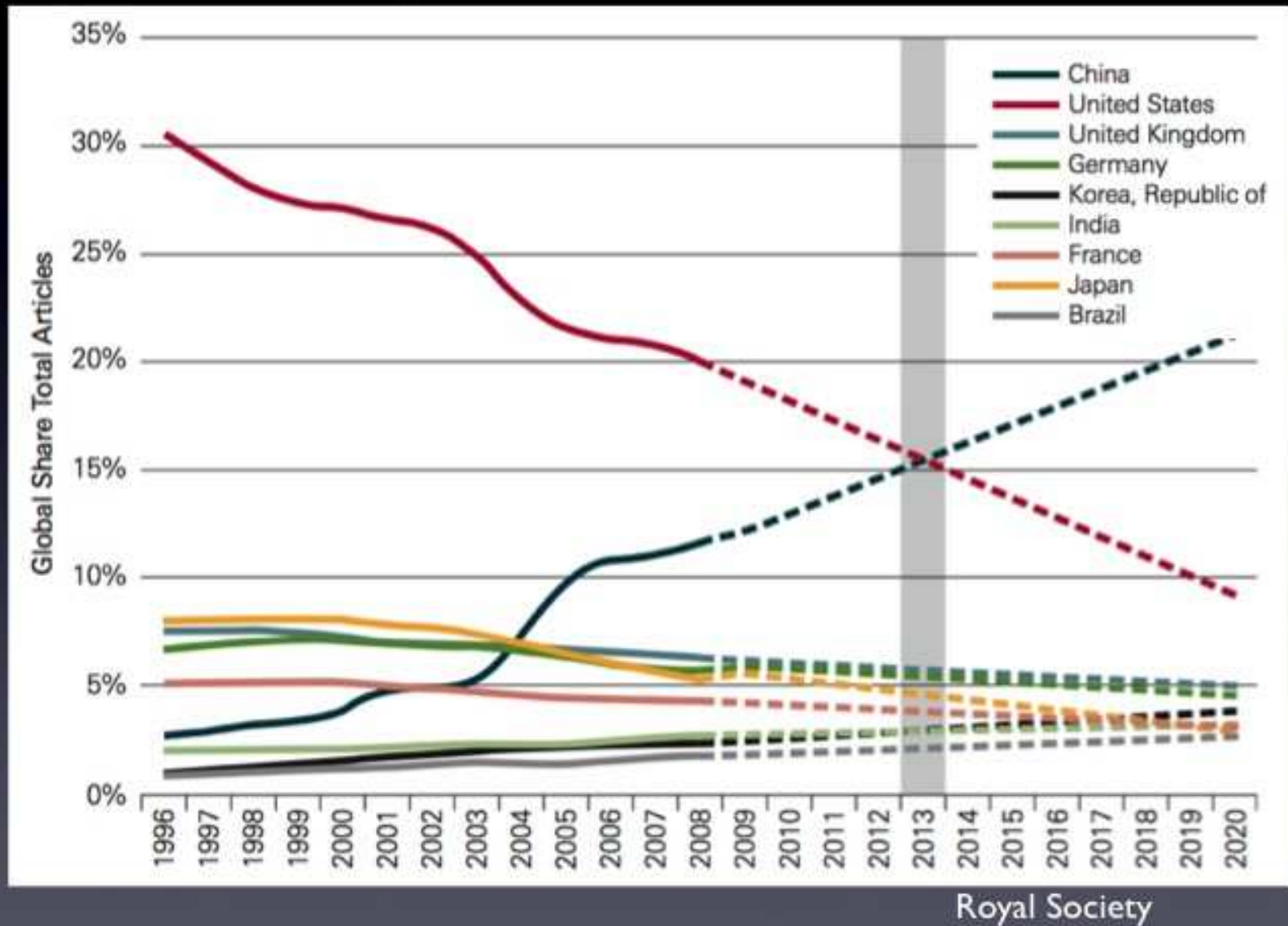


European Consortium Who & Where



- JWST hardware made in 27 US States: > 75% of launch-mass procured, in fabrication, or finished.
- NIRCcam — built by UofA (AZ) and Lockheed (CA).
- Launch Vehicle (Ariane V), NIRSpec, & MIRI provided by ESA.
- NIRSpec — built by ESA/ESTEC and Astrium (Munich).
- MIRI — built by consortium of 10 ESA countries (UK-lead) & JPL (CA).
- Fine Guidance Sensor (+ 1–5 μm grisms) — built by CSA (Montreal).

Projected growth in scientific literature



Now Space Shuttle program is winding down, the JWST is one of the few strategic high-tech Space Science investments that only the US can do.

⇒ The US must stay ahead of foreign competition, and finish JWST.

we do not want this to happen to U.S. astrophysics



... end up like the Superconducting SuperCollider (SSC), canceled in 1993.

This killed an entire generation of High Energy Physicists in the US!