Northwest Hydrogen Initiative

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Seattle, Washington
June 16, 2003

Northwest Hydrogen Initiative

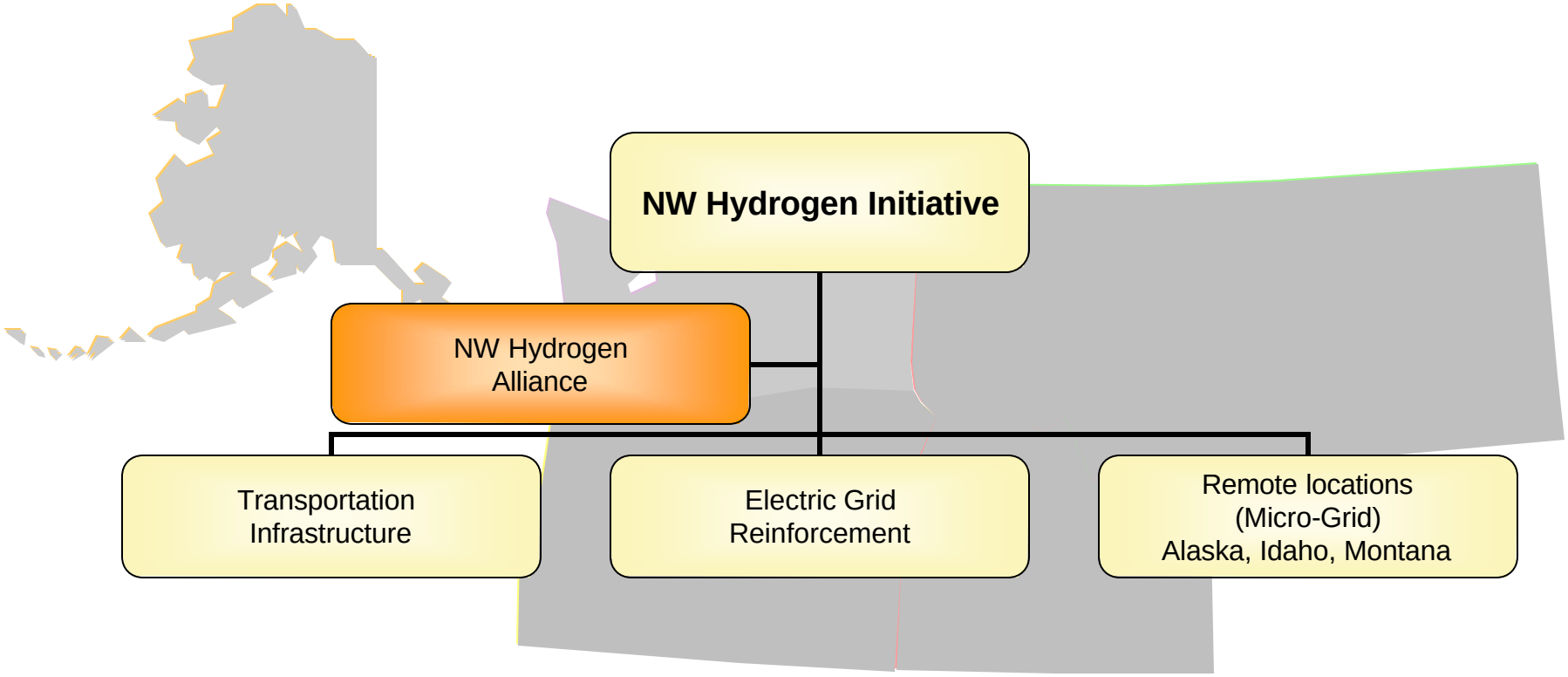
Goal: *A world-class hydrogen industry headquartered in the Northwest*

The hydrogen industry addresses:

- Deepening dependence on unstable sources of oil
- Global climate change
- Vast segments of the globe without power

Northwest Hydrogen Initiative

"World's Largest Hydrogen Infrastructure"



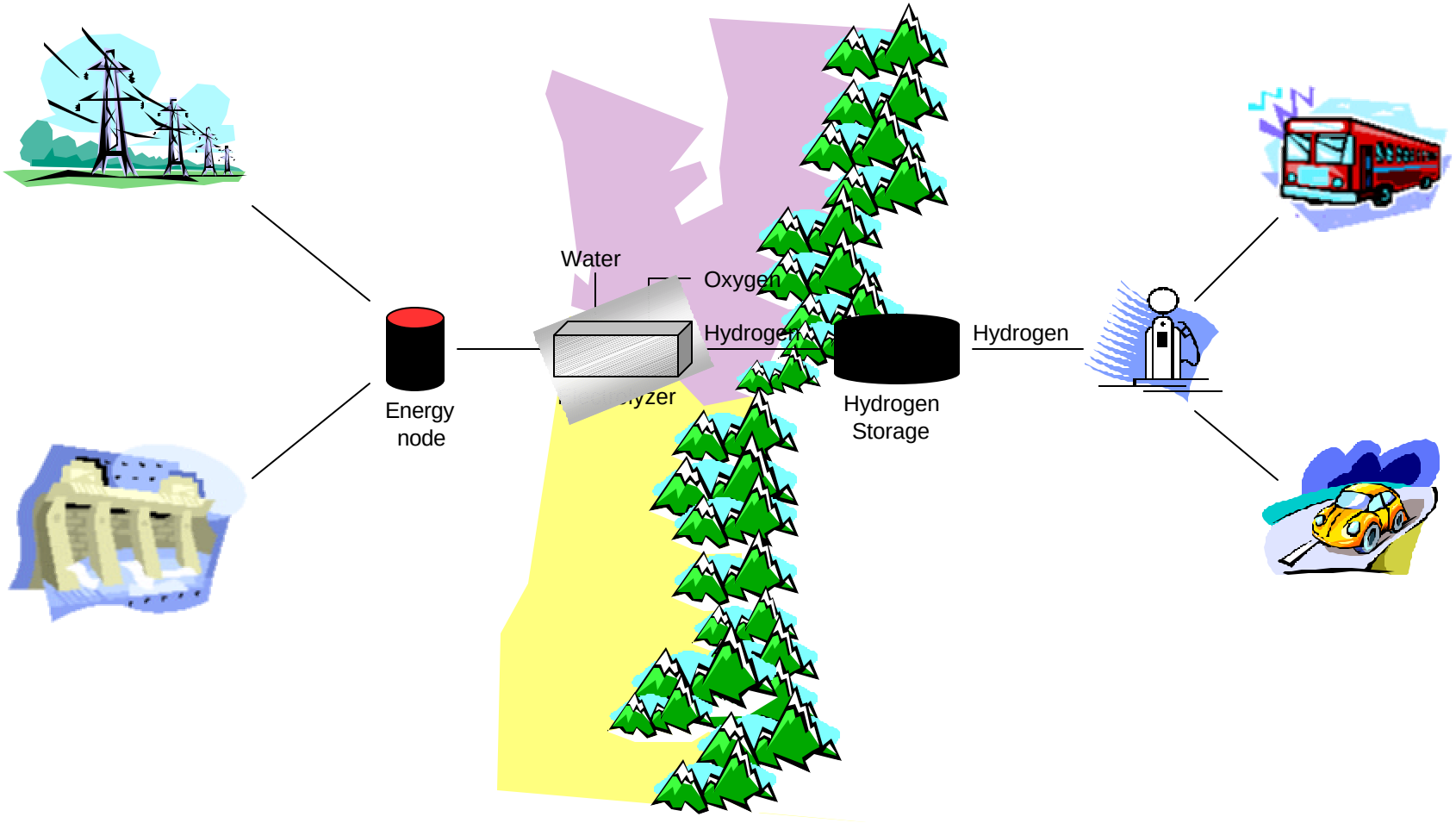
Northwest Hydrogen Alliance

- **Prospective Partners:**
  - Bonneville Power Administration (BPA), Energy Northwest
  - U.S. Department of Energy (DOE), state and city governments, Northwest Power Planning Council (NWPPC)
  - Oregon Department of Energy (ODOE)
  - Major regional universities (UW, WSU, OSU)
  - Auto manufacturers, fueling station developers, vehicle fleet owners
  - Pacific Northwest National Laboratory (PNNL), Idaho National Engineering and Environmental Laboratory (INEEL)

DOE Solicitation

- $150 million to $240 million over 5 years (2004-2008)
- Proposal due by August 14, 2003
- Proposal team to be led by auto manufacturer or energy (utility) company

Water to Hydrogen



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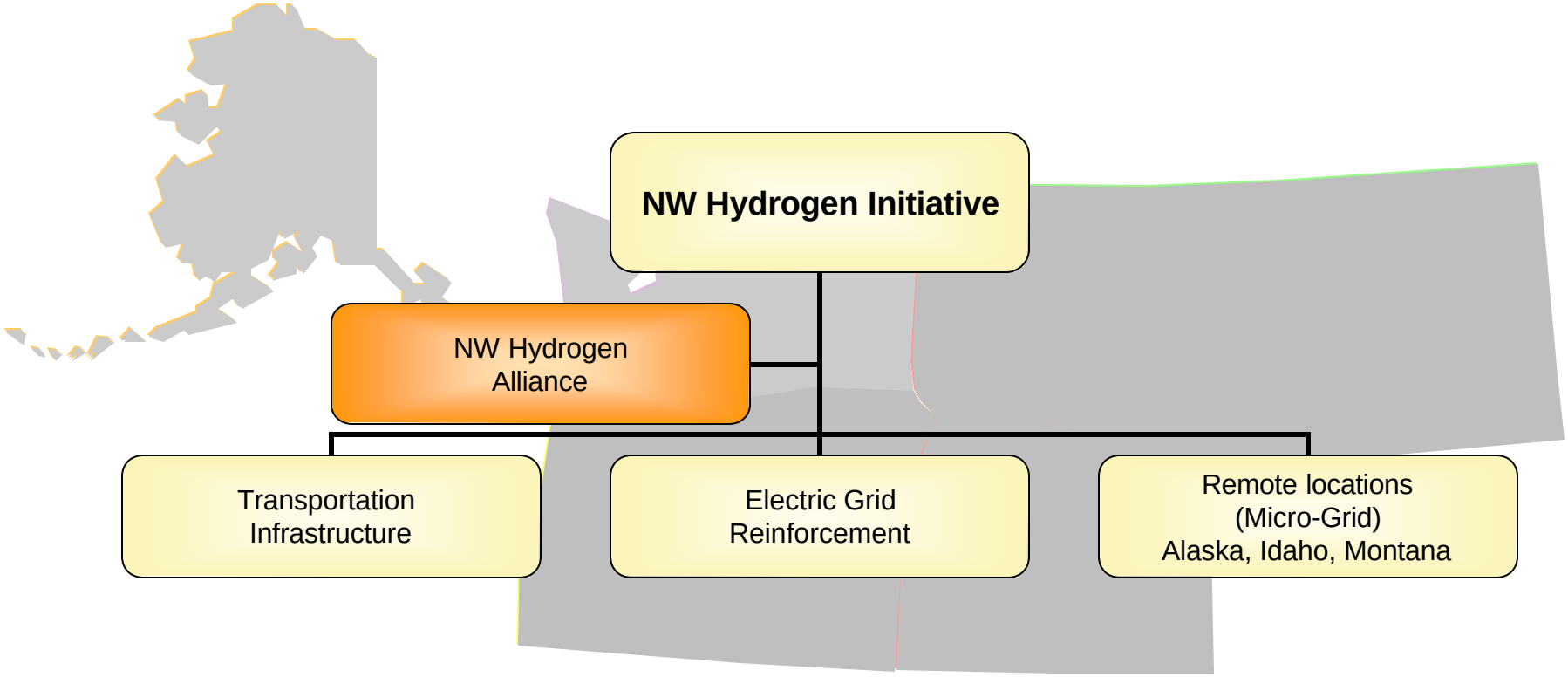
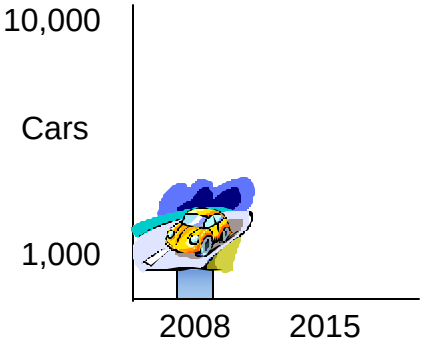


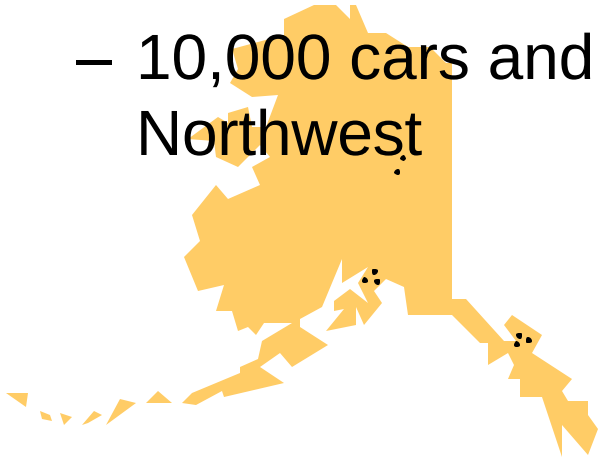
Transportation Infrastructure

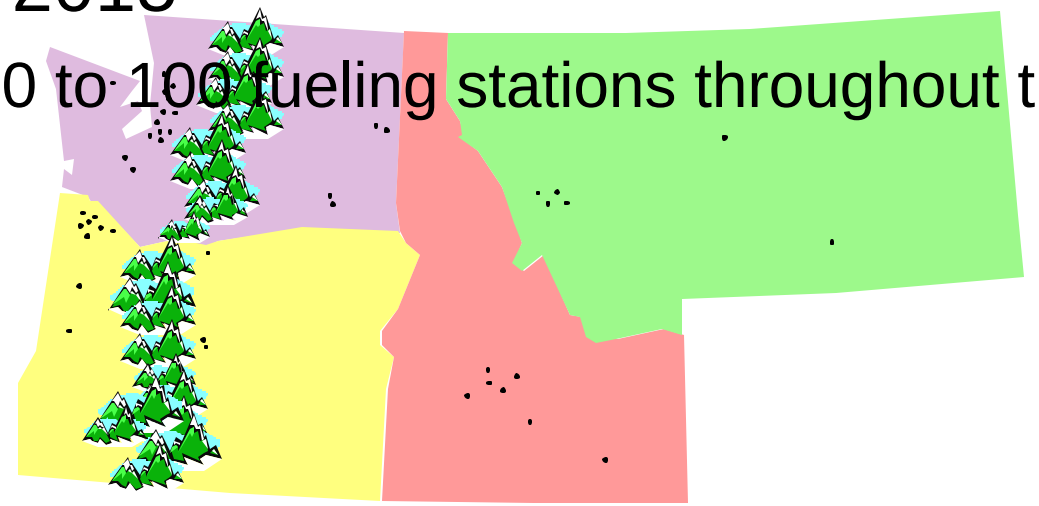
- Phase I: 2004 to 2008
  - 1,000 hydrogen cars and 15 fueling stations

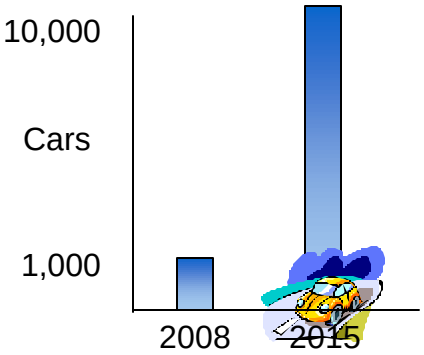


Transportation Infrastructure

- Phase II: 2009 to 2015
  - 10,000 cars and 50 to 100 fueling stations throughout the Northwest



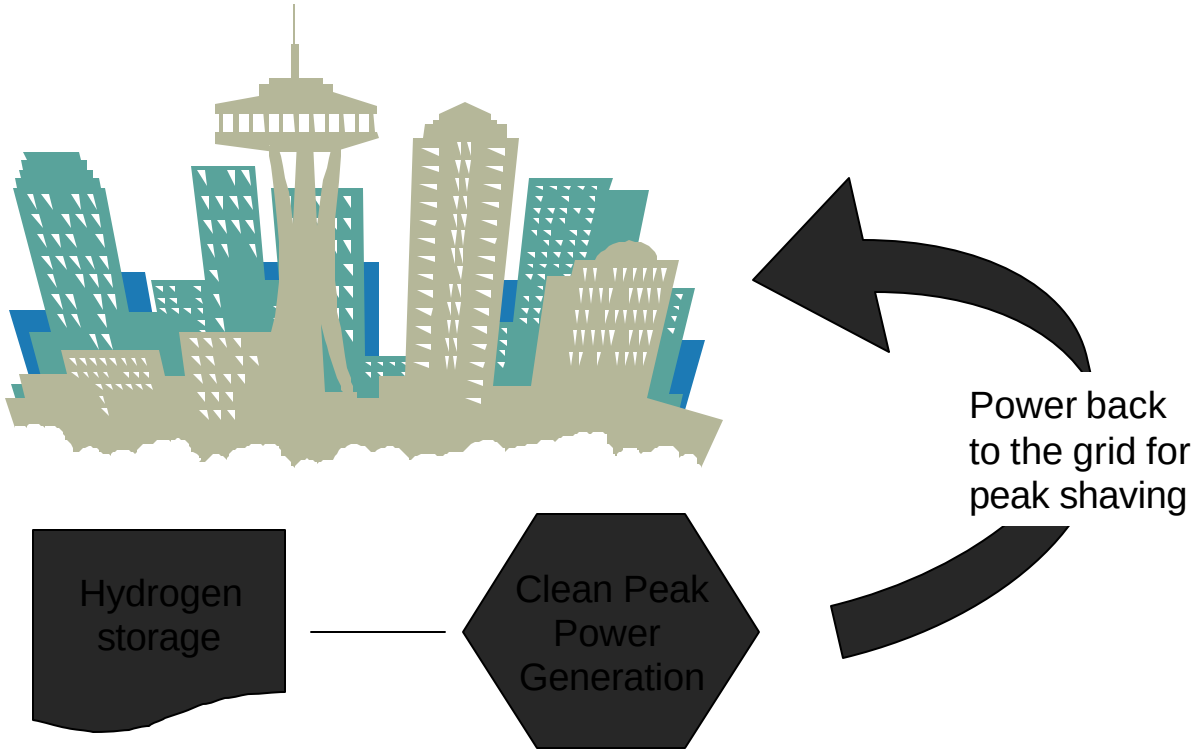




Electric Grid Reinforcement

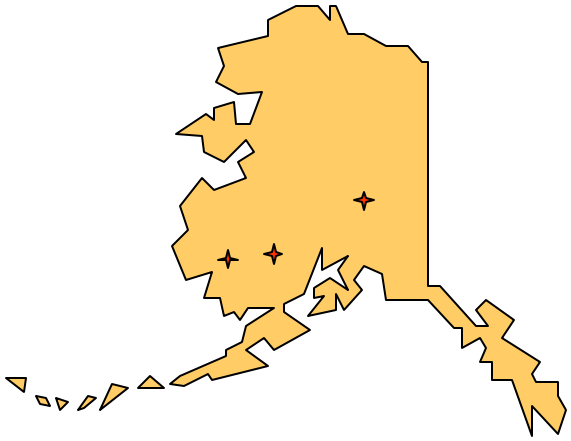
- Demonstrations proving hydrogen-powered generation can help meet soaring electric power demand

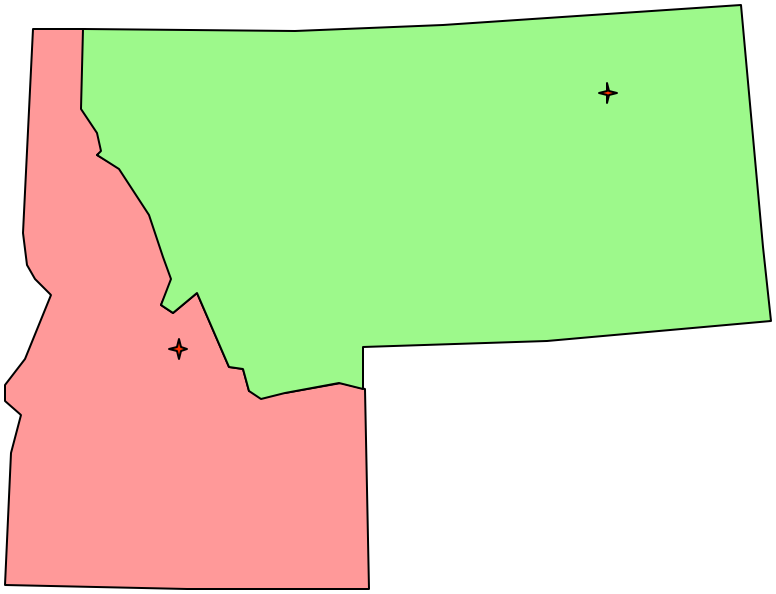
Electric Grid Reinforcement



Remote Locations

- Demonstrations proving hydrogen as viable fuel for powering off-grid communities





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