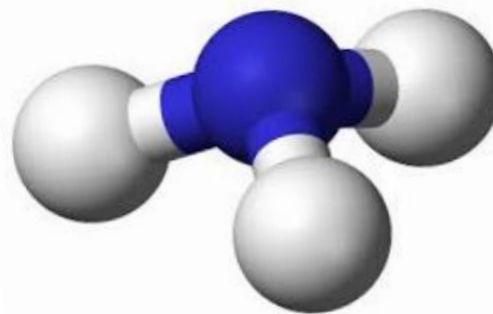
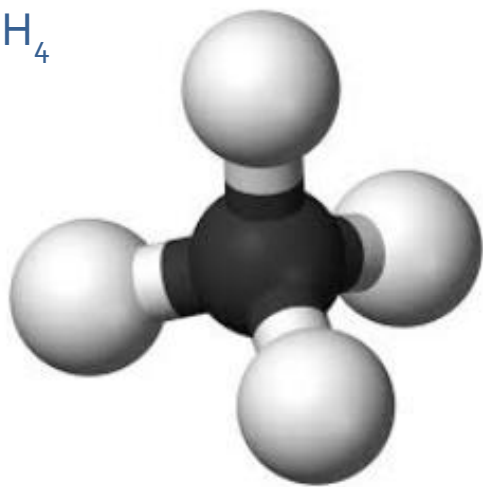


**NH<sub>3</sub> Energy Implementation Conference**  
**November 1, 2018**

**Session 3**  
**Ammonia as a Carrier of Hydrogen Fuel**

**Bill David**



# MIT Technology Review

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Business Impact

## Q & A: Steven Chu

The secretary of energy talks with *Technology Review* about the future of nuclear power post Yucca Mountain and why fuel-cell cars have no future.

by Kevin Bullis    May 14, 2009

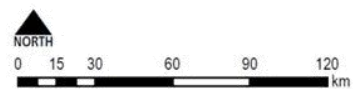
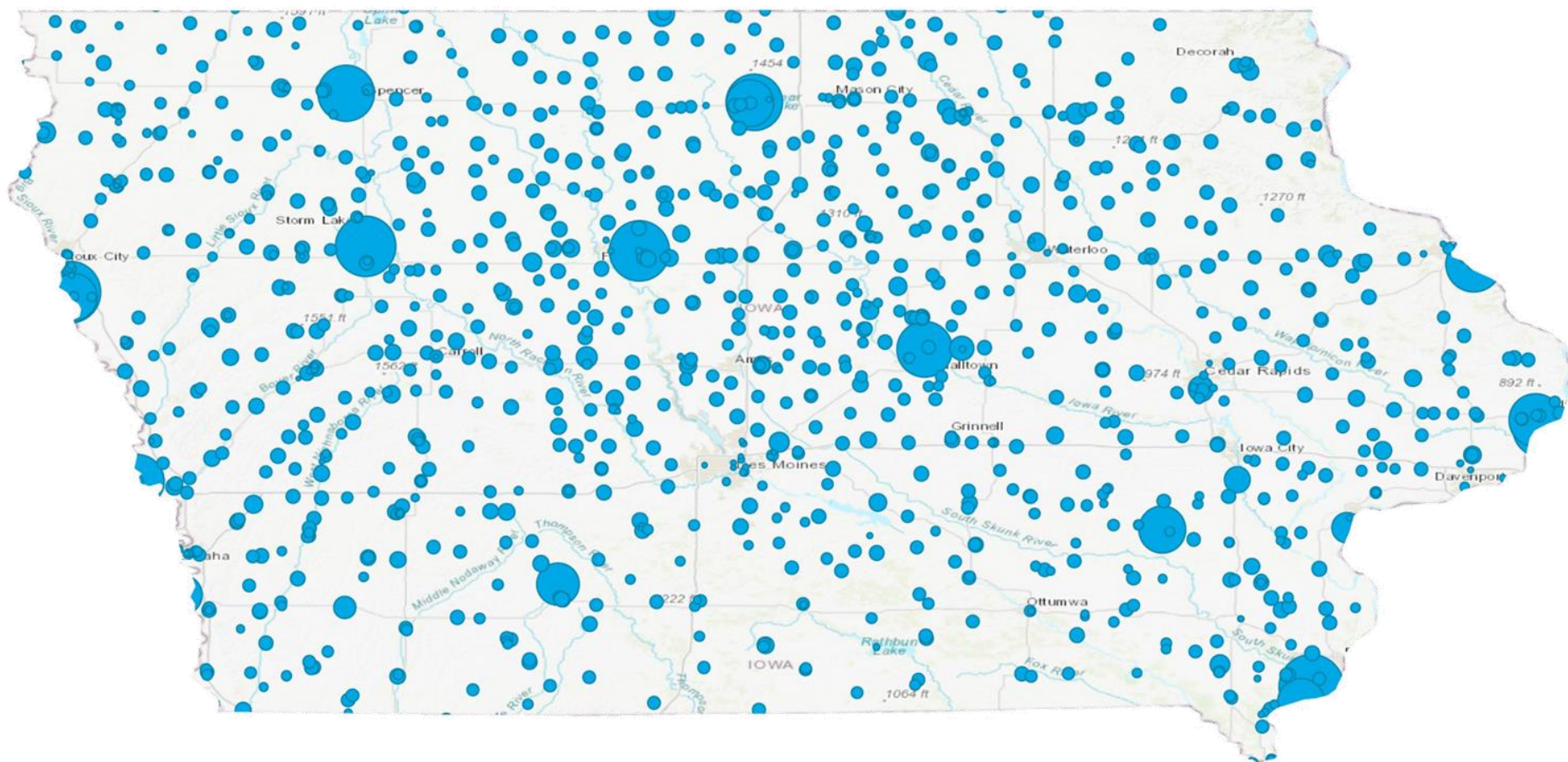
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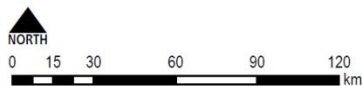
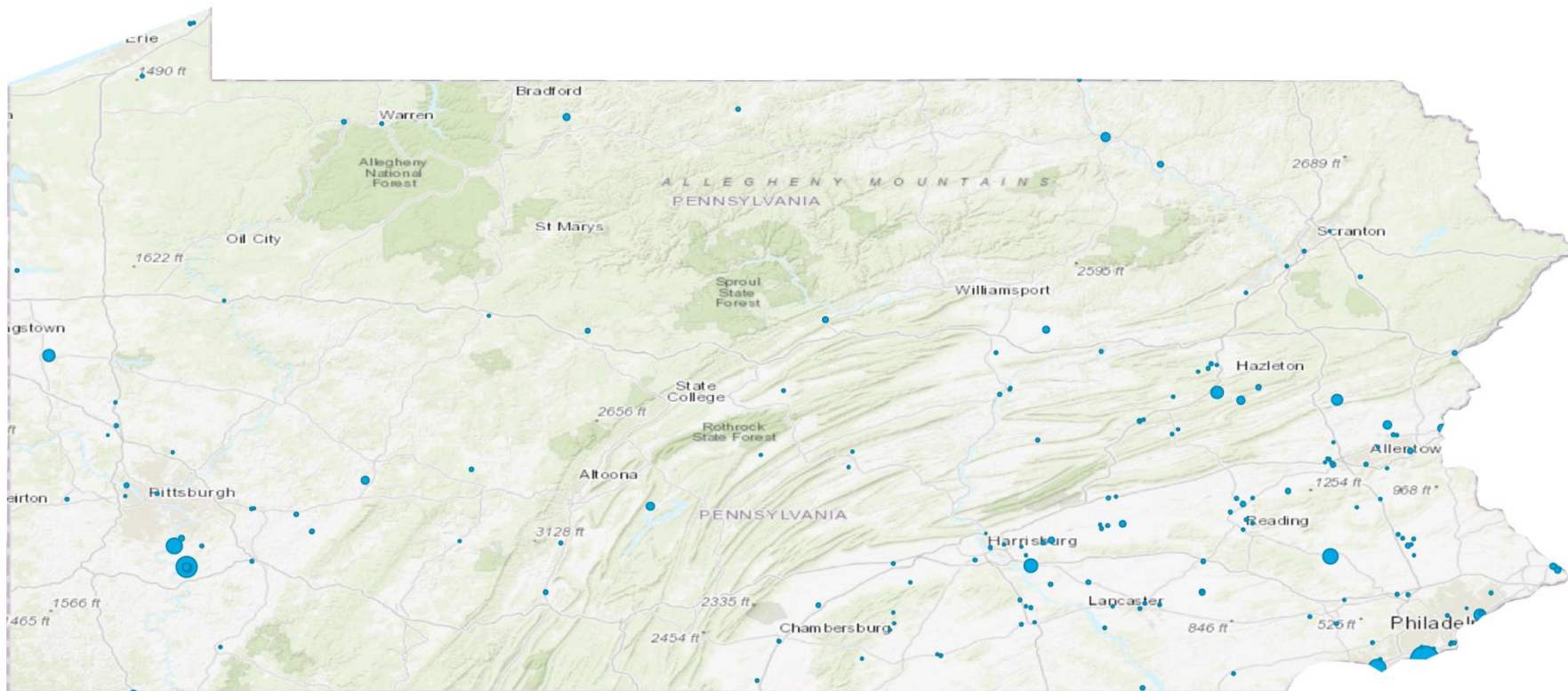


Steven Chu

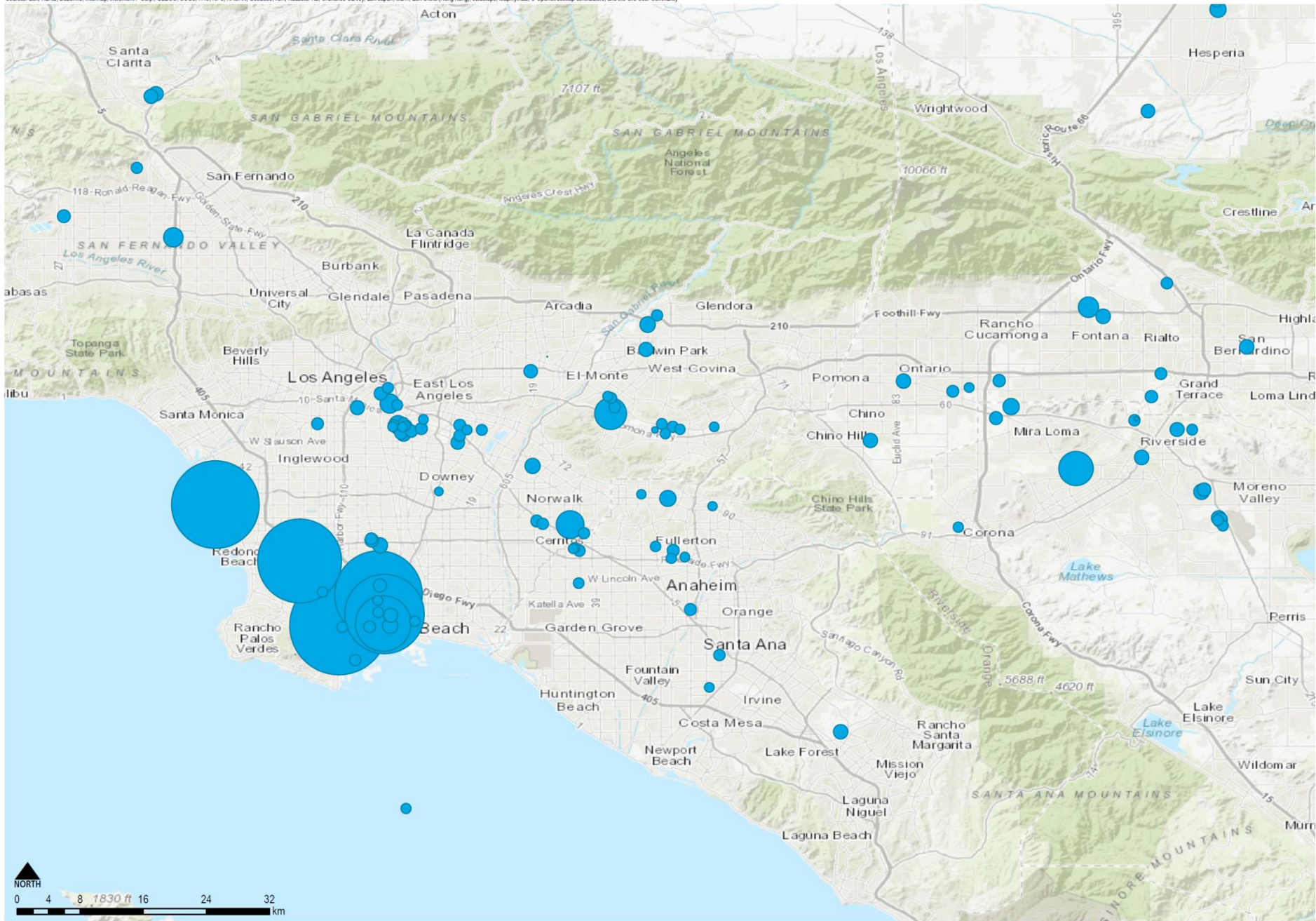
### The four miracles

1. Right now, the way we get hydrogen primarily is from reforming natural gas. That's **not an ideal source of hydrogen**.
2. If it's for transportation, we don't have a good storage mechanism yet. Compressed hydrogen is the best mechanism but it requires a large volume. **We haven't figured out how to store it with high density**.
3. Now **fuel cells** aren't there yet.
4. The **distribution infrastructure** isn't there yet.









# **Ammonia as a carrier of hydrogen fuel**

**What is in the realm of the possible?  
2-5 years**

- Barriers
- Challenges
- Hot spots