

NIST



Schrödinger's Cat: A Superposition of Funding Contingencies

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Photo Credit: Manufacturing USA

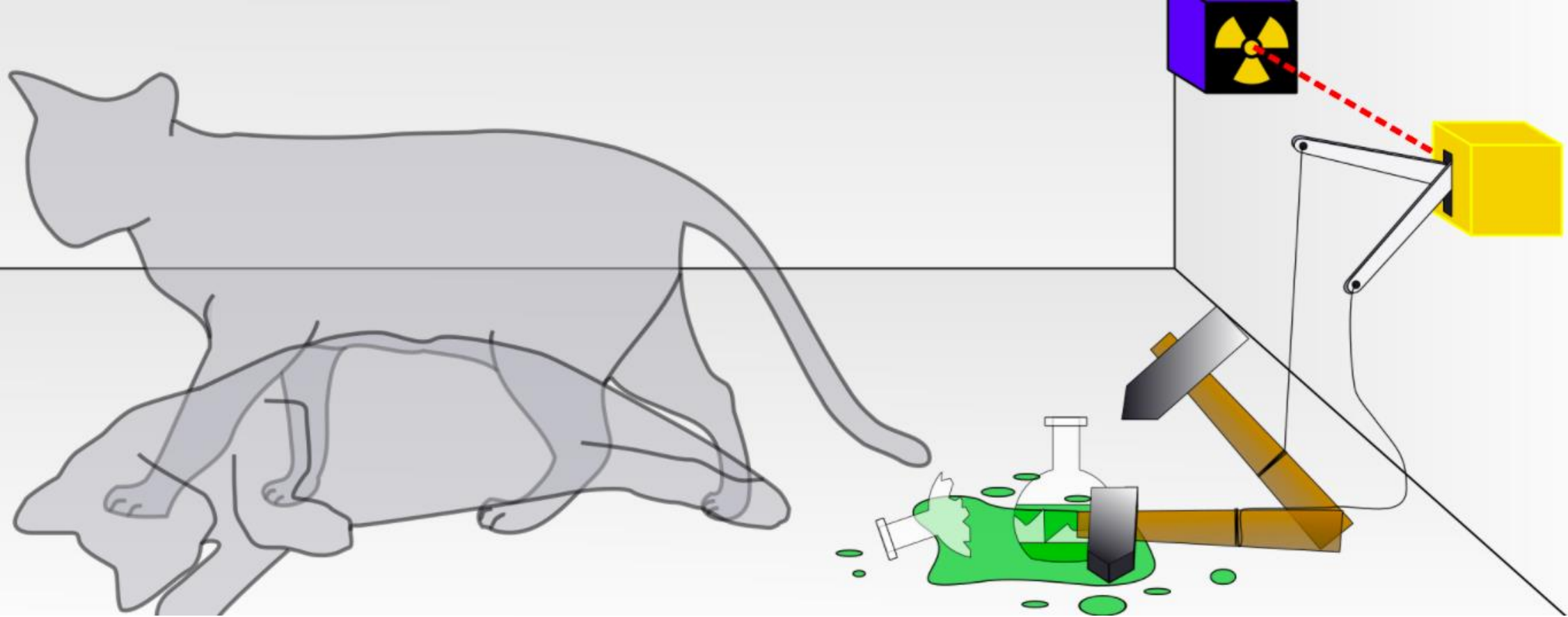


Photo Credit: Wikipedia

Science Policy — as uncertain as Schrödinger's Cat

- Pending legislation = simultaneously "dead and alive"
 - Contingency planning
 - "Superposition" of funding
- How can we create certainty in an uncertain science policy ecosystem?

| US ICA Text | Plaintext |
|---|--|
| <p><i>Section 2401(a)(7) — Page 289</i> MANUFACTURING USA INSTITUTE. — The term ‘Manufacturing USA institute’ means a Manufacturing USA institute described in section 34(d) of the National Institute of Standards and Technology Act (15 U.S.C. 278s(d))Hollings Manufacturing Extension Partnership</p> | <p>Defines a Manufacturing USA institute by the NIST Act.</p> |
| <p><i>Section 2401(c)(2)(E) — Page 293</i> (E) National Laboratories (as defined in section 2 of the Energy Policy Act of 2005 (42 6 U.S.C. 15801)); (F) Federal laboratories; (G) Manufacturing extension centers; (H) Manufacturing USA institutes; (I) institutions receiving an award under section 2104 of the Endless Frontier Act; and (J) a cooperative extension.</p> | <p>Defines National Laboratories (by the Energy Policy Act of 2005) as federal labs, manufacturing extension centers, Manufacturing USA institutes, institutes receiving an award from the Endless Frontier Act, or a cooperative extension.</p> |
| <p><i>Section 2401(i)(2) — Page 309</i> (2) COORDINATION WITH PROGRAMS OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—The Secretary shall coordinate the activities of regional technology hubs designated under this section, the Hollings Manufacturing Extension Partnership, and the Manufacturing USA Program, as the Secretary considers appropriate, to maintain the effectiveness of a manufacturing extension center or a Manufacturing USA institute.</p> | <p>The Manufacturing USA program is coordinated by the Secretary of Commerce to maintain the effectiveness of the institute.</p> <p><i>(This may be an opportunity to leverage other Commerce Programs).</i></p> |

Policy Analysis and Planning for Future NIST Duties

- Analyzed U.S. ICA, the Innovation and Competitiveness Act
 - Bill passed the Senate
 - Mentioned Manufacturing USA 46 times

117TH CONGRESS
1ST SESSION

S. 1260

AN ACT

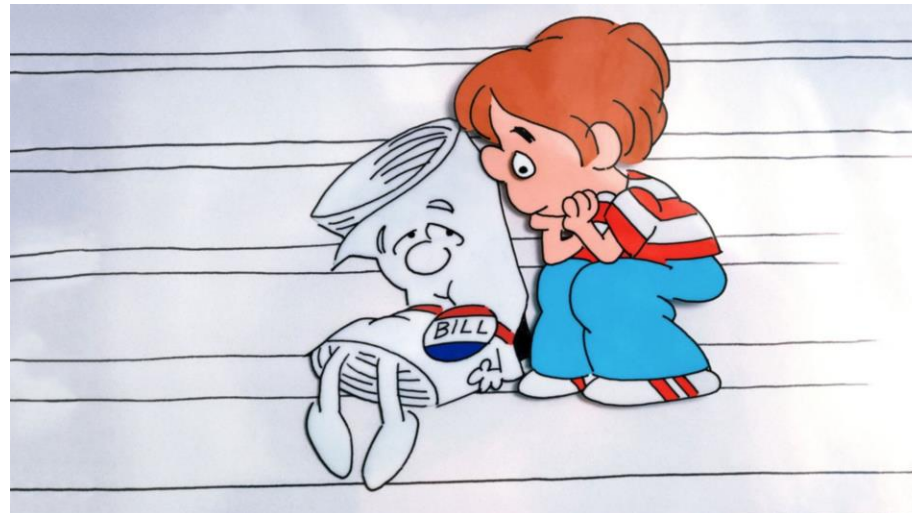


Photo Credit: Schoolhouse Rock

Science Communication to Feature Technical Experts

- Wrote article for *NIST Connections*
 - NIST's internal publication
 - Shares resources with NIST workforce
- Fellows volunteer expertise to join government
 - American Association for the Advancement of Science (AAAS)
 - American Society of Mechanical Engineers (ASME)

UGH, PEOPLE ARE MAD AT ME AGAIN BECAUSE THEY DON'T READ CAREFULLY. I'M BEING PERFECTLY CLEAR. IT'S NOT MY FAULT IF EVERYONE MISINTERPRETS WHAT I SAY.

WOW, SOUNDS LIKE YOU'RE GREAT AT COMMUNICATING, AN ACTIVITY THAT FAMOUSLY INVOLVES JUST ONE PERSON.



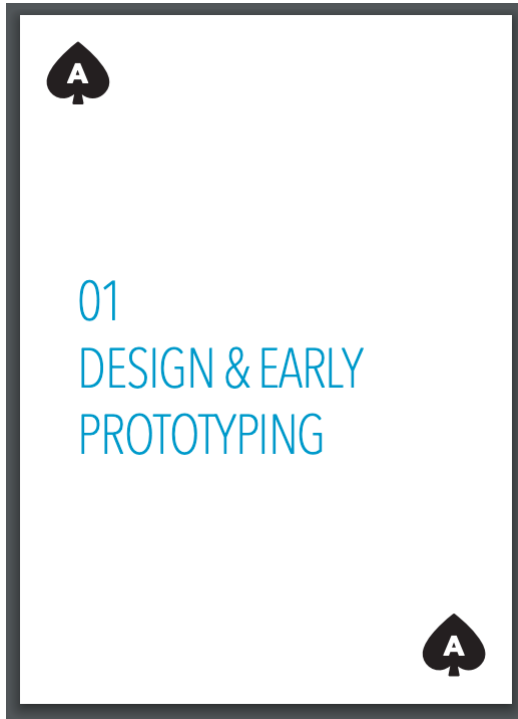


Photo Credit: SPS



Outreach Strategies to Engage Students in Manufacturing

- Partnered with AIP for Manufacturing Day activity
 - Psi* Program
 - Interactive games can reach students interested in science
 - Get students excited about manufacturing

What I Learned

Analysis → Preparation

Communication between
scientists and non-
scientists is crucial
(especially in politics!)

Outreach builds support
for the next generation

Manufacturing =
important to economy
and innovation

Acknowledgments and Gratitudes

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NIST

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