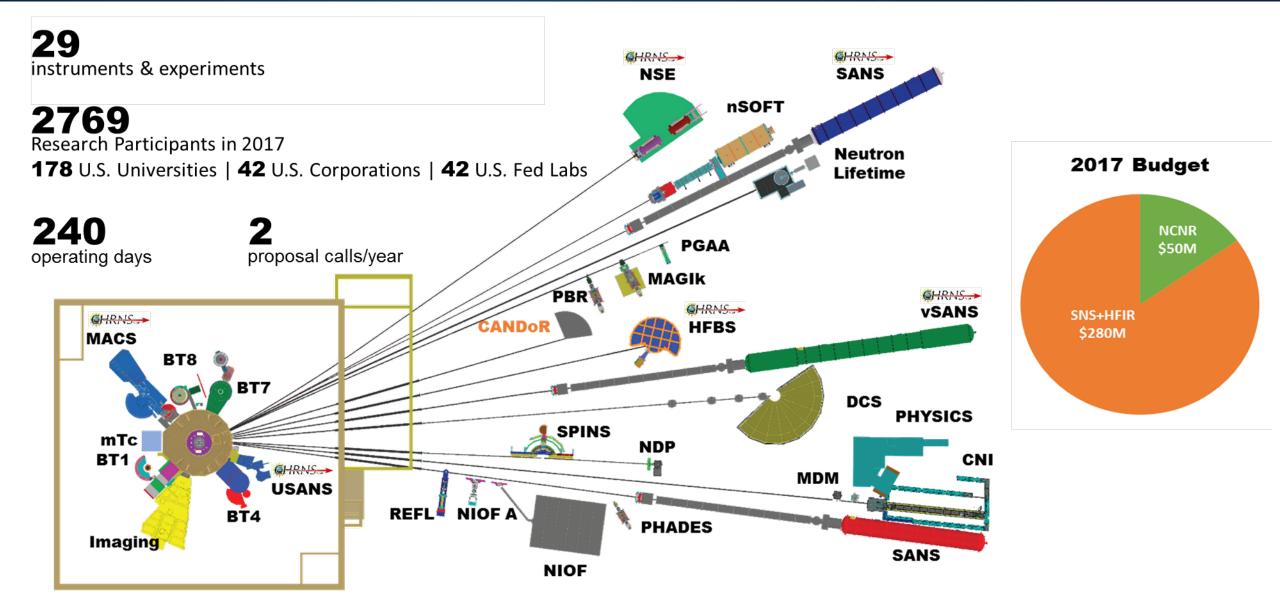
NIST Center for Neutron Research NIST

Dan Neumann, Leader, Neutron Condensed Matter Science Group, NIST/Center for Neutron Research

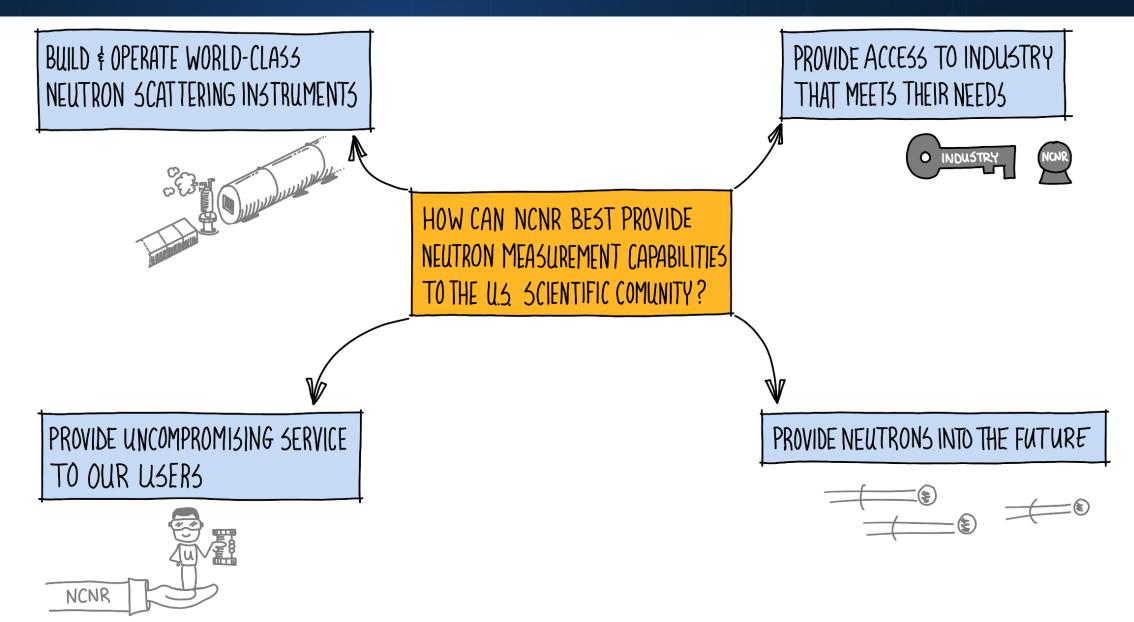
NCNR by the NUMBERS 29 experimental beam instruments/experiments





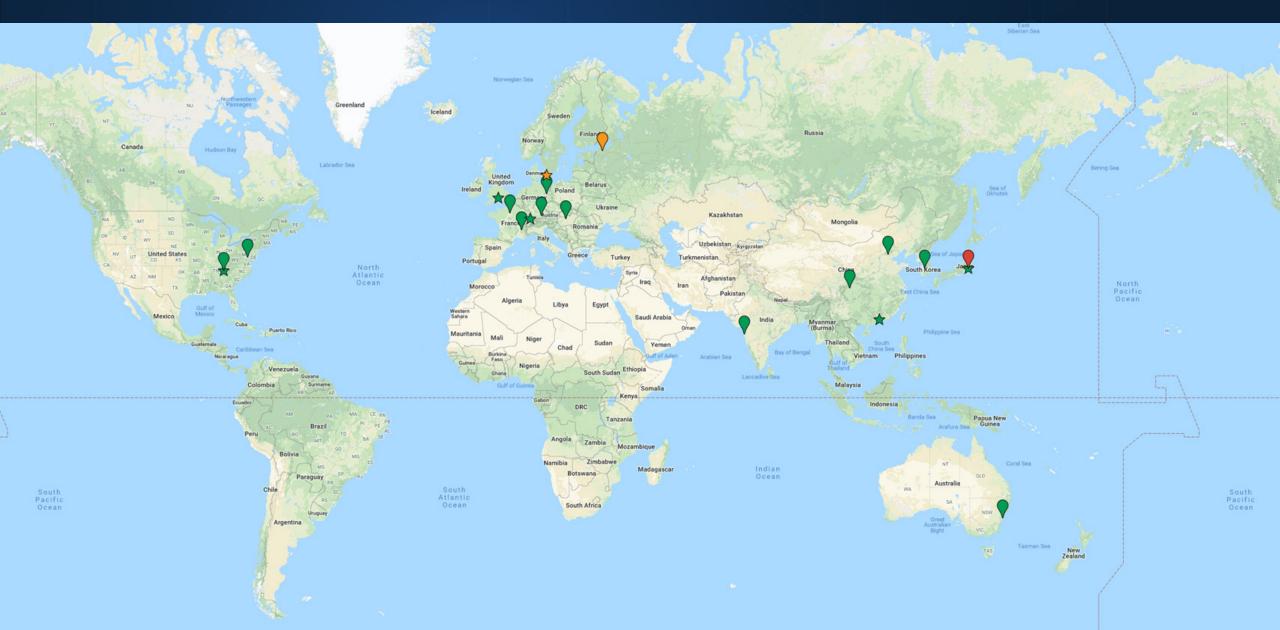
NIST Neutron Strategy





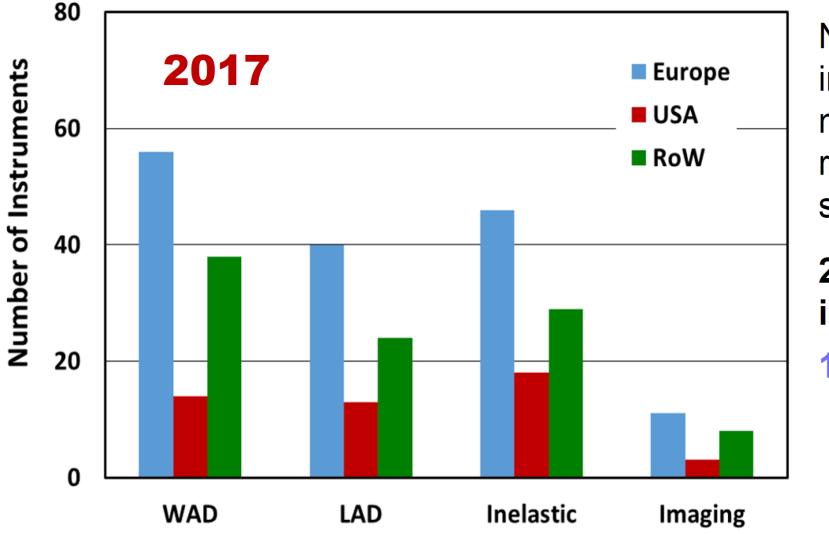
INTERNATIONAL CONTEXT





INTERNATIONAL CONTEXT





Neutron scattering and imaging instruments at major facilities fed by a reactor ≥10 MW or a spallation source

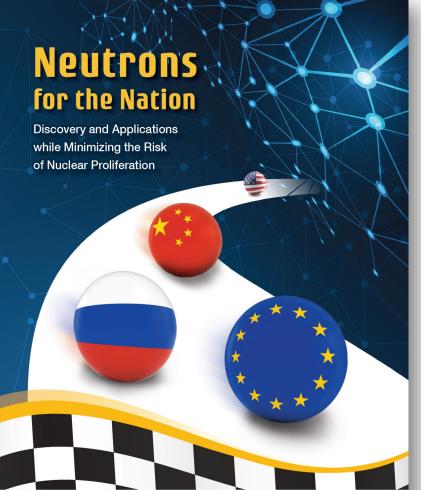
280 neutron scattering instruments world-wide

140 in Europe 45 in the USA

Type of Instrument

2018 Wells Report (APS-POPA) RECOMMENDATIONS





A Report by the APS Panel on Public Affairs July 2018



The United States should sharply increase its investments in neutron instrumentation development and deployment to partially compensate for the country's dramatic decrease in neutron R&D capacity and capability in recent decades; to offset any loss of capability arising from the elimination of HEU fuel from research reactors; and to complement continuing investments in complementary tools such as light sources and high-performance computing.

The United States should initiate an effort to competitively design and build a new generation of LEU-fueled high-performance research reactors that would satisfy all needs presently met by current HEUfueled U.S. high-performance research reactors and provide new capabilities.