



*International collaboration enabled by joint  
NSF-JST funding*

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**J-RAPID Symposium  
March 6, 2013**



## USG response to 3/11

**Operation Tomodachi was an unprecedented effort by the USG (especially the U.S. military) to provide relief to disaster victims.**

**Operation Tomodachi was initiated by the U.S. Department of Defense in joint cooperation with Japanese authorities.**

**The operation, which started March 12 and lasted until May 4, directly or indirectly involved nearly 24,000 U.S. service members, 189 aircraft and 24 naval ships, at a total cost of nearly \$90 million.**



## NSF response to 3/11

**March 11, 2011:** Earthquake & Tsunami, immediately thereafter many inquiries were made to NSF by US researchers

**March 30, 2011:** NSF issued First RAPID Dear Colleague Letter

**April 13, 2011:** NSF issued Second RAPID Dear Colleague Letter

**April 18, 2011:** JST call for J-RAPID proposals

**April 18, 2011:** Dr. Robin Murphy (TAMU) arrived in Japan with rescue robots

**April 29, 2011:** NSF target date for RAPID proposals



## NSF response to 3/11

**February 9-10, 2012:** First NZ and Japan RAPID Grantees Meeting at NSF in Arlington

**July 11, 2012:** Global Research on Applying Information Technology to Support Effective Disaster Management (NSF #1250260)

**August 9, 2012:** NSF issued RAPID Dear Colleague Letter focusing on debris fields

**September 17, 2012:** Nuclear Reactor Materials under Extreme Conditions (NSF #1243490)

**September 19, 2012:** Program solicitation NSF 12-610 (Hazards SEES) issued

**March 6-7, 2013:** J-RAPID Grantees Meeting in Sendai, Japan



## *Office of International & Integrative Activities*



**An island of flotsam that divers could not inspect**



## Office of International & Integrative Activities



**View of a submerged car from the SARbot ROV**



# **The value of international collaboration**

