

# UNISPACE + 50 HIGH LEVEL FORUM



SPACE FOUNDATION

SPACE --

BENEFITTING LIFE ON EARTH

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# SPACE FOUNDATION

*Advance space related endeavors to*

*- Inspire*

*- Enable*

*- and Propel  
humanity.*



# BREAKOUT SESSION – SPACE SOCIETY

- Societal benefit from space technology services and applications
- Innovation
- Increasing social awareness
- Extension of socio-economic prospects to space and spinoffs on Earth



# Space Technology Hall of Fame

*The Space Technology Hall of Fame® increases public awareness of the benefits of space exploration and encourages further innovation by recognizing individuals, organizations and companies that effectively adapt and market technologies originally developed for space to improve the quality of life for all humanity.*



# The WATEX System

- Technology Inducted in 2016
- Inducted Individual:
  - *Dr. Alain Gachet, founder - RTI*
- Inducted Organizations:
  - *Radar Technologies International*
  - *NASA*



# The WATEX Story

- Intention - use satellite generated remote-sensing data to identify probable locations of precious metals
- Outcome - identified a significant water leak in the Libyan water pipeline and realized that satellite data could be used to locate water.
- The system uses a variety of data with the primary sources being: NASA's Shuttle Radar Topography Mission; NASA's Spaceborne Imaging Radar; and the joint NASA and U.S. Geological Survey's Landsat Program.
- Additional sources have included the Canadian Space Agency and the Japan Aerospace Exploration Agency.



# The WATEX Story (continued)

- 2004 Darfur refugee crisis
- United Nations High Commissioner for Refugees and USAID needing water for more than 2 ½ million people



Over four months, RTI located enough water to sustain the camps. Prior to RTI's involvement, the NGO's responsible for locating water sources had a success rate of around 33 percent. Using RTI, success soared to 98 percent.



# The WATEX Story (continued)

- Since then, RTI has been used to locate crucial water sources in some of the most challenging parts of the world -- including Afghanistan, Ethiopia, Kenya and Iraq
- NASA, the USGS and other space agencies have made remote sensing data openly available.

This free exchange of information and knowledge allowed Dr. Gachet and RTI to develop the unique WATEX system, and to significantly improve the lives of millions of people around the world.





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