

INVENT FOR THE PLANET

#IFTP

THE SUN NEVER SETS ON INNOVATION

Need/Problem Statements for IFTP 2019

#	Thematic Area	Tagline	Need Statements
1	Safety USAID	Fatal Road Accidents	Seventy-four percent of road traffic accidents in the world take place in low-income countries. In Southeast Asia in particular, the number of accidents has been rapidly increasing due in part to the high rate of young, reckless motorcyclists. How can we alert these drivers of the risks and encourage them to drive safely to prevent road accidents?
2	Humanity USAID	Improving Quality of Life	In his 2018 end-of-year review, Bill Gates highlighted that for most of our history, humanity has focused on living longer by fighting disease and trying to grow enough food for everyone. As a result, life spans have gone up dramatically. There are still problems to solve, such as malaria or obesity, but in 2019 and beyond, the focus of technology may shift toward improving the quality of life. Using simple tools or technologies, how can we detect and address quality of life issues? Examples could include guiding toward sleeping and eating better, and helping you use your time more efficiently. There are many ways to approach the quality of life -- be creative!
3	Medical NAE Grand Challenge	Advance Health Informatics	As computers have become broadly available, a systematic approach to health informatics (the acquisition, management and use of information in health) could greatly enhance the quality and efficiency of medical care and the response to widespread public health emergencies. What can be designed to provide the correct information, in the correct format, to the correct person, at the time that is needed?
4	Humanity NAE Grand Challenge	Provide Access to Clean Water	The world's water supplies are facing new threats and affordable, advanced technologies could make a difference for millions of people around the world. How can we design a system to provide clean water that is accessible to a large portion of the world's population? A solution could include making water safe to drink, alternative delivery methods, or new methods of generating/collecting clean water.
5	Digital Technology and Environment AIRBUS	Global Internet of Things	<p>We are promised a world where everything is connected everywhere: a network where all human-made things will talk to each other, bringing our society closer to a living organism.</p> <p>However, for now, "things" are mostly connected in homes, factories, urban environments. As soon as you venture into the wild (in the nature, in rural environments, in the sky, at sea...), network connectivity lacks, and "things" come back to their loneliness.</p> <p>Airbus is developing a new electronic chip, that can be embedded in any product, and that would be compatible with terrestrial networks (cellular etc), as well as space networks (via satellite). So our "things" can be connected anywhere, anytime. Find a promising application for this chip.</p>