YGPS
Young Geospatial Professionals Summit
21 November 2018 Deqing, China
Flying Labs, WeRobotics
Nepal: 2015 Earthquakes

Nepal experienced two major earthquakes on April 25 and May 12, 2015 at magnitudes of 7.8 and 7.3 respectively.

Number of people killed
As of 26 May 2015
8,673

Number of people injured
21,952

Source: UNRCO/Gov. of Nepal

Source: http://reliefweb.int/
In Nepal, a model for using drones for humanitarianism emerges

By Matt McFarland  October 7, 2015
Continuation of Drones for Social Good Activities afterwards ???

If Drone operators aren’t already on site by the time disaster strikes, they probably will not arrive in time to be useful.
Localization of the Technology
WeRobotics: Inclusive Participation

Building Aid, Health, Development and Environmental solutions by sustainably Localizing Robotics Technologies.
The goal of our Flying Labs is to create local robotics capacity addressing local social challenges.
WeRobotics Activities

“Drone as a Service” Business Incubation Programs & Facilitation of project opportunities / Hard- and Software rental / Repair capabilities

Trainings
- Applied Robotics Hardware and Software trainings
- Local training tracks of WeRobotics sector-oriented program tracks

Facilitate and strengthen local and regional Robotics Eco-System and RaaS marketplace / Link to WeRobotics global community / Provide guidelines and share learnings

Projects for Social Good sector addressing WeRobotics’ sector-oriented program tracks / Advisory services
Flying Labs Network

Co-creating a global network of robotics technology knowledge hubs – “Flying Labs”
Flying Labs: As Expert Centers

NEPAL

TANZANIA

PERU

Flooding on the Mbezi River, TZ

Baseline imagery from Google Earth compared to drone-collected imagery from Tanzania Flying Labs (Dec 2017)

Housing Damage
South-to-South Collaboration

Our Flying Labs openly and widely share their experiences with each other, help build each other’s capacity with regional trainings and help each other to become more knowledgeable.
Drones in Social Good & Research

Disaster Management (Pre/Post)
Use drones to create 2D and 3D geospatial data products of affected areas to create base layers for local decision making and resilience/rebuilding efforts.

Disaster Relief
Provide high resolution aerial imagery after natural disasters to create geospatial data products and base layers for disaster relief management plans.

Nature Conservation & Climate Change
Provide high-resolution geospatial data supporting research projects and find new ways of addressing nature conservation needs and climate change issues.

Health
Identify low-cost ways that provide high-precision health care in remote area setting through cargo and mapping solutions.

Agriculture & Land Management
Support local communities & farmers with data for more productive and sustainable farming and land management.

Development
Create local “Drones-as-a-Service” markets and ecosystems to address the 4th industrial revolution.
Addresses 9 SDGs
“Give a man a fish, and you feed him for a day. Teach a man to fish and you feed him for a lifetime.”

- Lao Tzu
New Japan Flying Labs Committed to Build a More Resilient Country

After a first webinar, held our highly anticipated plan: building a more resilient country.

Run by Prof. Furushashi, endorsed by NPO Chikusei KOKUSAI VISION, Japan environmental and education

With the help of fixed-wing Japanese knowledge, disaster resilience and disaster informed decision-making.

Youths in Fiji to Map Informal Settlements Using Drones

Fiji was largely spared the wrath of Cyclone Gita, but the heavy rainfall. A

Cyclone devastated the islands of Tonga, Fiji. As typically happens, the

drone companies and international organizations are now being to carry out

aerial surveys of the damage done by Australia and/or New Zealand.

These foreign companies usually arrive weeks after the disaster. They also

charge high consulting fees, and hardly speak the local language. In addition,

they typically stay a week or two at most, which means aerial imagery is not

available during the recovery and reconstruction phase. Lastly, foreign

companies rarely, if ever, have time to build local capacity, let alone the know-

how to sustainably transfer drone technology to local partners.

Our mission at Am robotics is to localize appropriate robotics technology by

providing solutions locally to the needs of local professionists. We're

through our growing network of local labs - local action, local scale.

Join our Drone Training in Tanzania!

We held our first ever regional drone training in Tanzania last year and it was a huge success! We received well over 60 applications from dozens of countries including India, Swaziland, South Africa, Rwanda, Zambia, Ethiopia, Kenya, Nigeria, Ghana, Cameroon and Zimbabwe. So we're offering our professional drone training again this year on March 12-14 in Dar es Salaam in collaboration with the World Bank and the Ilevett Foundation.

Amrita - Youngest Lab Coordinator