

#NDMUN21

ADVANCING
PROTECTION,
PEACE AND
DEVELOPMENT



Private Sector Innovation for Humanitarian Action

NDM21, 15 February 2018

Sam Libby, Esri



49 Years of GIS
180+ Countries

Working **across** sectors

Building Systems of
Record and Engagement

Providing Mapping, Analysis, Data
Management, and Collaboration Tools



Mine Action is inherently geospatial

- Visual Display of Contamination
- Remote Sensing for post-clearance assessment
- Cluster strike evaluation
- Sketch mapping, evidence collection, device reporting

Many are building Systems of Record through GIS

Many are already using ArcGIS for paper and PDF maps

Partnering with: HI, HALO, MAG, iMMAP, USAID
and development partners



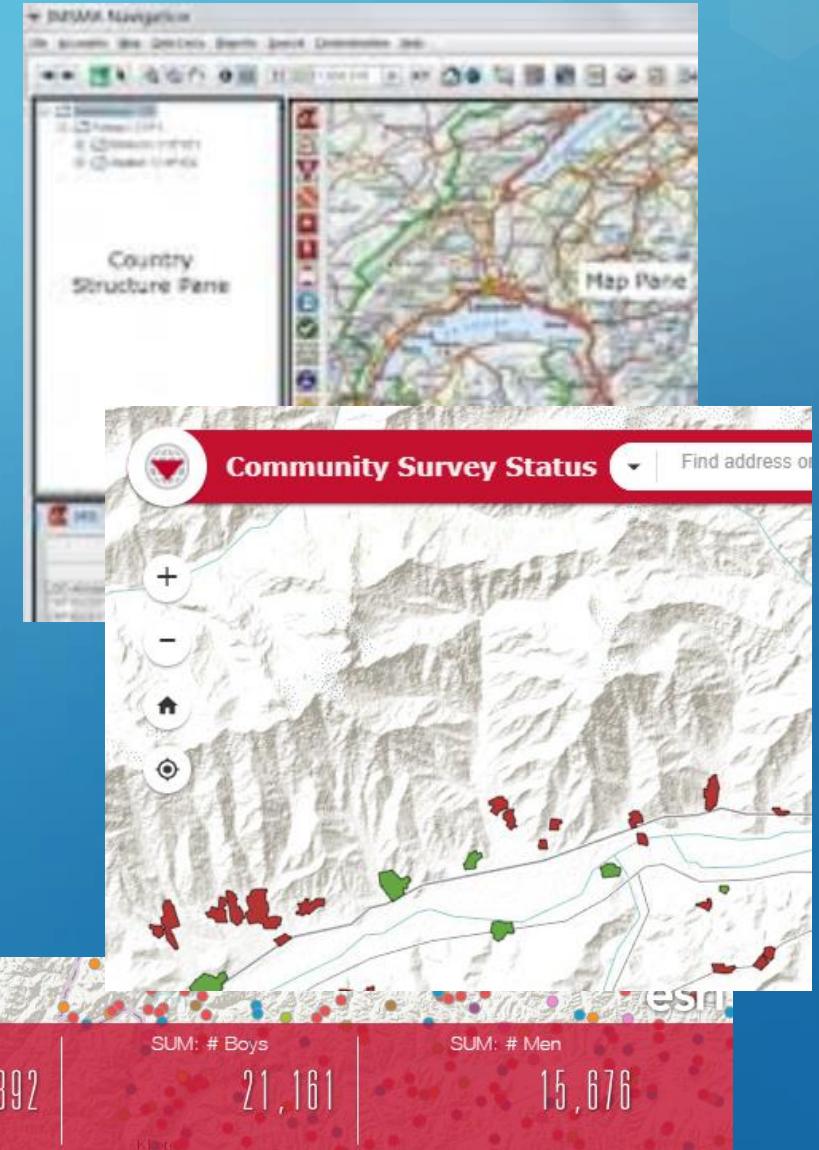
Esri ▶ Supporting Mine Action With GICHD

IMSMA has been built on ArcGIS for nearly 20 years

Providing mapping software at low or no cost – 95-99% savings under GICHD license agreement

IMSMA Core brings the power of modern web and mobile access to information management

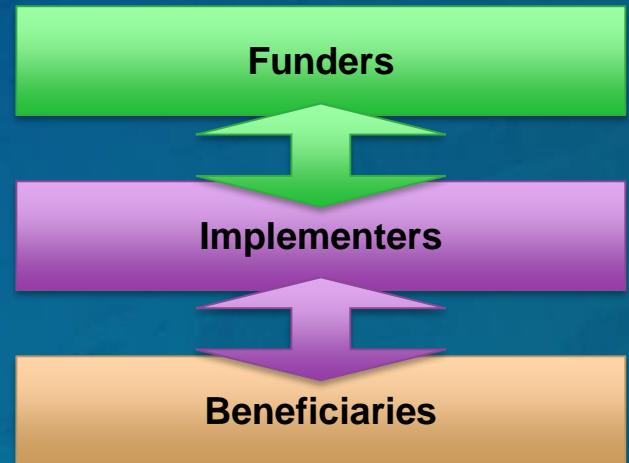
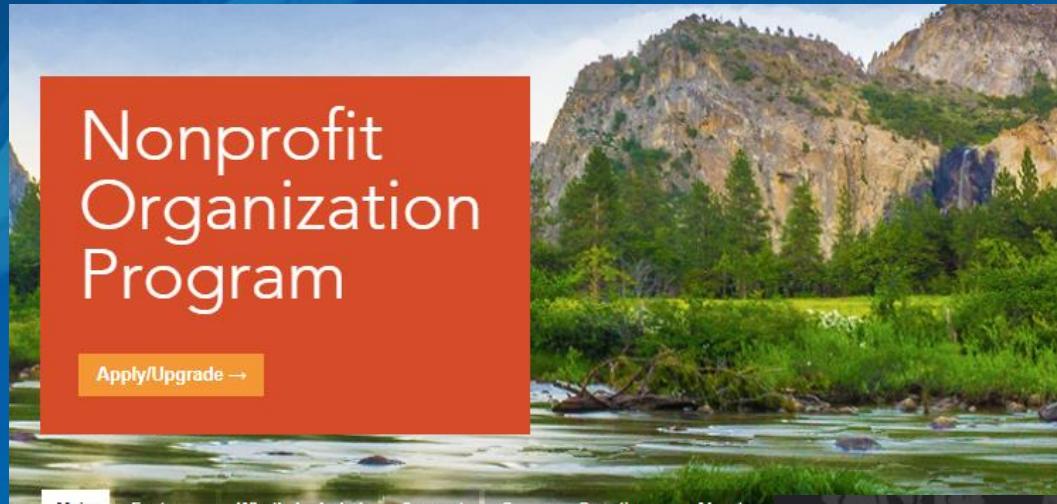
- Smart forms
- Web dashboards
- Mobile access



Esri ▶ Building community training with GICHD

<p>Web Course ⌚ 2 Hours</p> <p>GIS for Humanitarian Mine Action: Using Vector Data in ArcMap</p> <p>Learn techniques to enhance exploration of your data and prepare data for analysis. You will also learn how to increase the usability of a GIS map. The course also introduces common query, geoprocessing, and</p> <p>+Wish List  View Details</p>	<p>Web Course ⌚ 2 Hours, 45 Minutes</p> <p>GIS for Humanitarian Mine Action: Principles of Map Design</p> <p>Maps that provide the right information at a glance are critical for the safety of all involved in humanitarian mine action operations. Learn fundamental design principles to make a well-designed map that</p> <p>+Wish List  View Details</p>	<p>Web Course ⌚ 2 Hours, 30 Minutes</p> <p>GIS for Humanitarian Mine Action: Using Raster Data in ArcMap</p> <p>Raster data is an important type of GIS data, but the files typically require more storage space and take longer to process. Learn practical tips and techniques to reduce the size of your raster data and minimize</p> <p>+Wish List  View Details</p>
<p>Web Course ⌚ 3 Hours</p> <p>GIS for Humanitarian Mine Action: Coordinate Systems and Map Projections</p> <p>Your choice of coordinate system and map projection impacts the accuracy of feature locations and measurements made using the map. This course introduces reference system concepts used to</p> <p>+Wish List  View Details</p>	<p>Web Course ⌚ 2 Hours, 45 Minutes</p> <p>GIS for Humanitarian Mine Action: Symbols and Symbol Styles</p> <p>Maps used to assist demining efforts must be accurate and easy to interpret to prevent injury or death. This course teaches symbology skills that will help you create high-quality GIS maps that support land-release</p> <p>+Wish List  View Details</p>	<p>Web Course ⌚ 3 Hours, 15 Minutes</p> <p>GIS for Humanitarian Mine Action: Georeferencing and Digitizing</p> <p>Imagery is very useful for visualization and analysis, but it must have associated spatial reference information to be accurately mapped to its real-world location. This course teaches how to add spatial reference information to an image and how to create vector</p> <p>+Wish List  View Details</p>

Esri Nonprofit Program



Global Nonprofit Program Participation

Special Relationships

Enriching Our User Community
Making a Difference

5,000+ Nonprofit Organizations



CIVIC ANALYTICS NETWORK

JANE GOODALL INSTITUTE UNEP

W.K.KELLOGG FOUNDATION CONSERVATION INTERNATIONAL

ASSOCIATION OF AMERICAN GEOGRAPHERS WORLD VISION

NATIONAL AUDUBON SOCIETY

AQUARIUM OF THE PACIFIC CGIAR WOLD WILDLIFE CONSERVATION FUND

NATIONAL GEOGRAPHIC SOCIETY CIESIN

HALO TRUST NATURESERVE NATURAL RESOURCES DEFENSE COUNCIL

INTERNATIONAL RESCUE COMMITTEE TRUST FOR PUBLIC LAND

INTERNATIONAL ORGANIZATION FOR MIGRATION

NATIONAL TRUST FOR HISTORIC PRESERVATION

DEVELOPMENT GATEWAY CHESAPEAKE CONSERVANCY SOCIETY FOR CONSERVATION GIS

BILL & MELINDA GATES FOUNDATION

WORLD FOOD PROGRAMME WORLD RESOURCES INSTITUTE

THE NATURE CONSERVANCY GICHD

CATHOLIC RELIEF SERVICES

NETHOPE DIRECT RELIEF

WORLD HEALTH ORGANIZATION

ASSOCIATION OF AMERICAN GEOGRAPHERS UNHCR

AMERICAN RED CROSS

EARTH GENOME

Esri ▶ Why support NGOs and Humanitarians?

Our founder's vision as GIS for a better world

Recognition of the donation of time and effort that all staff of NGOs and Humanitarians make each day

Getting key feedback from those who are very close to our biggest problems

Building a company with a legacy, not a balance sheet

Taking For-Profit to For-Profit-for-Good





SDG Vision

GIS
Is Enabling a
Sustainable World

What if SDG reporting was **hands-off** and always up-to-date?

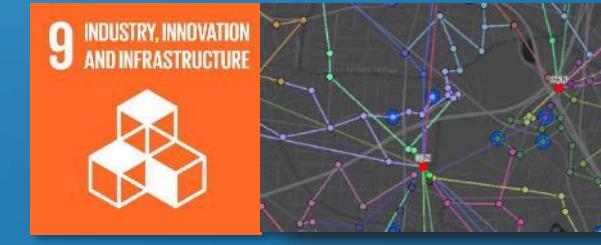
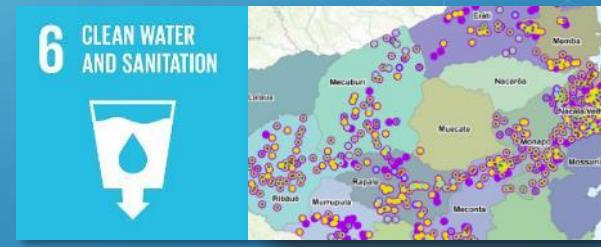
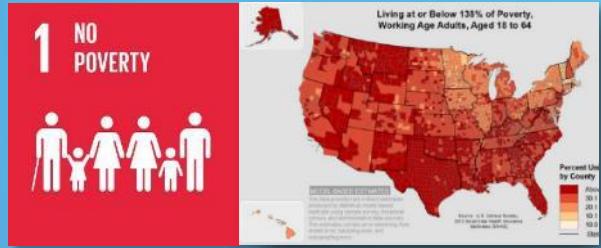


2017-2018 Research Exercise

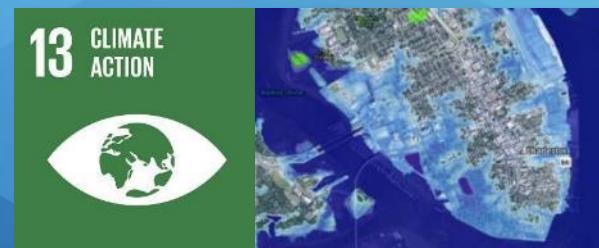
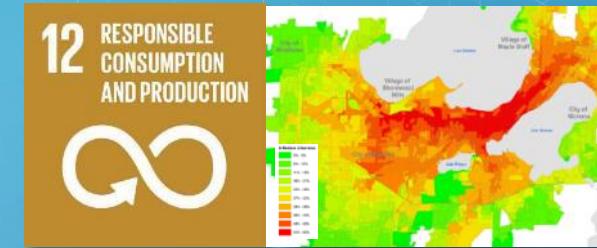
Federated Information System for the SDGs



GIS In Action to meet the SDGs



Building Capacity through Reporting Indicators



Esri ▶ A federated information system for the SDGs

Working with partners at UNSD and with National Statistical Offices to:

Catalog and review the rich existing datasets

Provide open and enthusiastic access to data

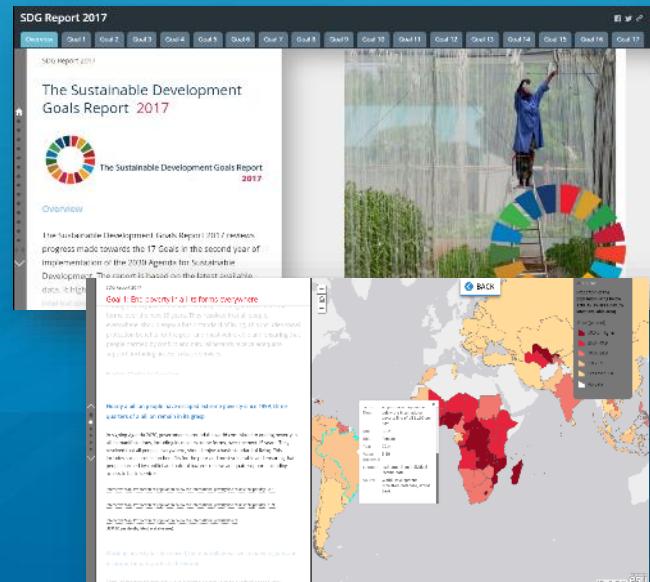
Provide a workable pattern for sharing up from providers and down from government



OS Ireland

**Country Level
SDG Data Hubs**

**Providing Mapping, Analysis, Data
Management, and Collaboration Tools**



**SDG
Story Maps**



**UN SDG
Data Hub**

Esri ▶ What can the private sector provide?

Relevant ideas, new technology and interventions from other sectors

Re-usable Training and Skills for Mine Action IM teams

Ongoing updates to existing software at no cost

Access to resources in-country from other organizations

Partners, distributors, GIS professionals

Now is the Time to Act

Envision What's Possible

Learn the New Technology

Adopt the New Patterns

Explore New Applications

Share and Collaborate

Encourage New Users

Share Methods and Successes



Thank you

Sam Libby – slibby@esri.com