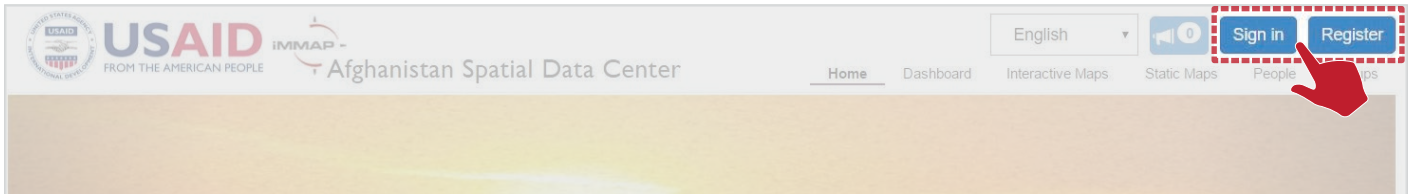
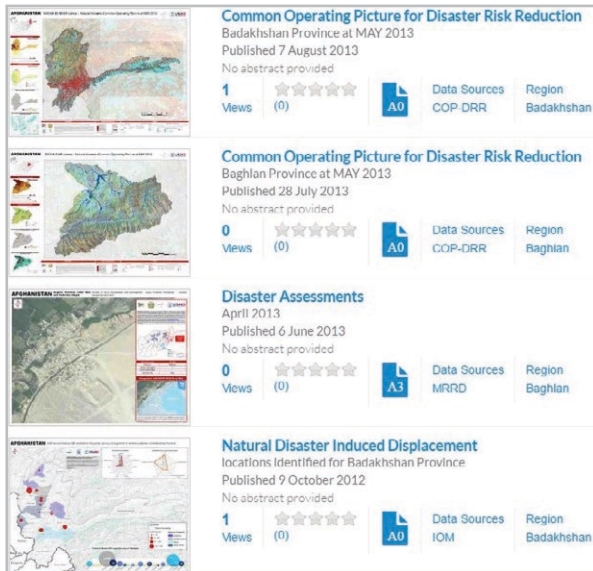


Afghanistan is a country with sparse and often inaccurate data availability. The Afghanistan Spatial Data Center (ASDC) goal is to provide the best current available data for the entire humanitarian community. The ASDC is part of the USAID funded iMMAP DRR program, which is ready for daily utilisation. The information provided on ASDC are especially useful for forecasting, emergency response, M&E and planning purposes.

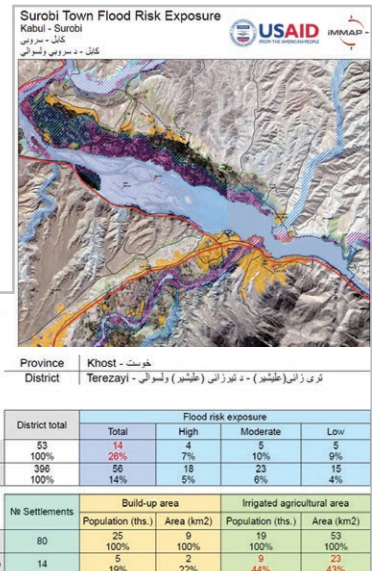
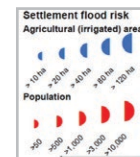
1 Register at asdc.immap.org



2 Download static maps

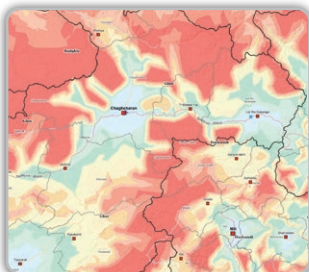


- Downloadable Pdf maps
- A0 to A4 and B0 - B1 size
- Catalogue of 1979 current maps.
- Continuously expanded with new maps
- Categorised by
 - Region/province/district
 - Category
 - Keywords
 - Publication date
- Searchable

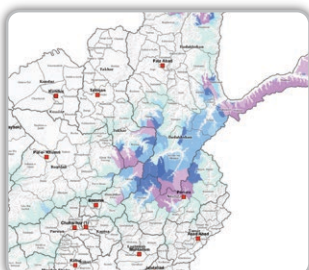


3 Use interactive maps

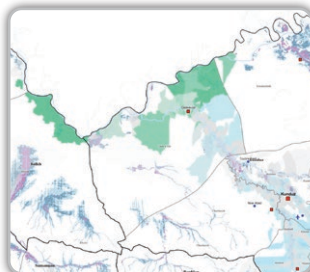
Accessibility: Travel time to the nearest hospital, airport, ...



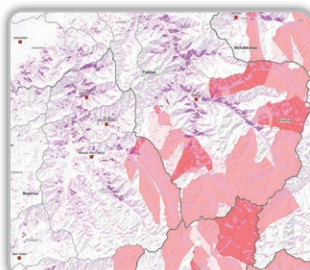
Snow cover and depth, (updated daily)



Flood forecast and flood risk zones (updated every 60 min)



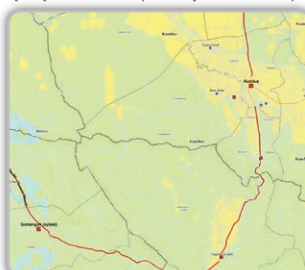
Avalanche areas and current risk (updated daily)



Baseline map: Landcover, roads, hospitals, satellite imagery,...



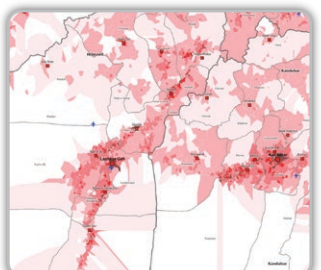
Earthquake Shakeup (USGS) with affected population (every 15 min.)



Infrastructure: 400.000km roads, airports, runways, hospitals ...



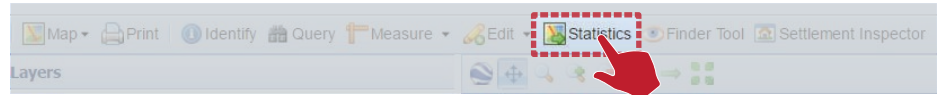
Population: Total and Density. All settlement areas



4 Statistics tool



The statistics tool is a powerful engine allowing data access at the nationwide, provincial, district and even for custom drawn areas.



1

Statistics

☐ Current Extent
☐ Entire Afghanistan
☒ Provinces and Districts

Select a province...
Daykundi

Select a district...
Ashtarlay

Reset Apply

2

☐ Current Extent
☐ Entire Afghanistan
☐ Provinces and Districts

Select a province...
Select a district...

☒ Draw Area

Reset Apply

4

Draw Area

☒ Flood Risk
☐ Avalanche Forecasted
☐ Avalanche Risk

Population

Total	12.8 K
Barren Land	0
Built-up	3.2 K
Fruit trees	102
Irrigated Agg land	1.6 K
Permanent Snow	0
Rainfed Agg land	6.8 K
Rangeland	1 K
Sand cover	0
Vineyards	0
Water body and marshland	15
Forest and shrubs	72

Area (KM2)

Total	143
Barren Land	0
Built-up	0.9
Fruit trees	0.3
Irrigated Agg land	3.3

Accessibility POI time/pop.

Baseline Accessibility Flood Forecasted Flo

To nearest airport

Time	Population
< 1 h	23.5 M
< 2 h	3.9 M
< 3 h	1.8 M
< 4 h	1.1 M
< 5 h	838.2 K
< 6 h	570.2 K
< 7 h	426 K
< 8 h	350.9 K
< 8 h	136.5 K

To nearest health facilities tier 1

Time	Population
< 1 h	12.1 M

Flood likelihood forecast

Baseline Accessibility Flood Forecasted Flo

Population

	Flash Flood	River Flood
Extreme	0	0
Very High	0	0
High	0	3.9 K
Moderate	14.1 K	15.3 K
Low	18.5 K	227.4 K

Area (KM2)

	Flash Flood	River Flood
Extreme	0	0
Very High	0	0
High	0	28
Moderate	35	132
Low	78	1.5 K

Last Updated
Flash Flood 11-04-2016 20:30
River Flood 11-04-2016 19:30

Static flood exposure risk

recasted Flood Risk Avalanche Forecasted Av

Population

	Total
Total	7.1 M(23%)
High	1.7 M(5%)
Moderate	2.8 M(9%)
Low	2.6 M(8%)

Barren Land 56.2 K(11%)
Built-up 2.1 M(16%)
Fruit trees 177.5 K(37%)
Irrigated Agg land 4.3 M(43%)
Permanent Snow 26(1%)
Rainfed Agg land 110.9 K(5%)
Rangeland 205.1 K(12%)
Sand cover 8.2 K(12%)
Vineyards 135 K(41%)
Forest and shrubs 11.6 K(3%)

Area (KM2)

	Total
Total	75.2 K(12%)
High	13.2 K(2%)
Moderate	22.8 K(6%)

Avalanche forecast and static

recasted Flood Risk Avalanche Forecasted A

Population

	Total
Total	119.9 K
High	71.1 K
Moderate	22.5 K
Low	26.4 K

Last Updated
Avalanche Forecast 11-04-2016 20:30

☒ Avalanche Forecasted ☐ Avalanche Risk ☐ Earthquake

Population

	Total
Total	643.6 K(2%)
High	134.9 K(0%)
Moderate	508.6 K(0%)
Low	0(0%)

Area (KM2)

	Total
Total	75.2 K(12%)
High	13.2 K(2%)
Moderate	22.8 K(6%)

Earthquake impact

Alanche Forecasted Avalanche Risk Earthquake

Show Last Year Events

M 7.5 - 45km E of Parkhar, Afghanistan

M 7.5 - 45km E of Parkhar, Afghanistan 26-10-2015 14:09:42

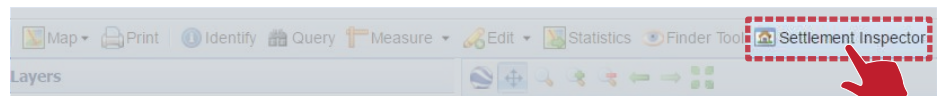
Mercalli Intensity Scale Population Settlements

	Population	Settlements
IX+ Extreme	0	0
IX Violent	0	0
VIII Severe	0	0
VII Very-Strong	0	0
VI Strong	2.3 M	1.9 K
V Moderate	12.4 M	9.8 K
IV Light	7.2 M	15 K
III-Weak	1.1 M	3.4 K

5 Settlement inspector



The settlement inspector provides access to all the available data of a specific settlement



Settlement Inspector

Palran

General Information Accessibilities Snow Cover and forecasted Flood and Forecasted

Settlement Palran

Language Dari

District Tagab

Province Badakhshan

Elevation 1862.5 m above sea level

Area 15.6 km²

Total Population 1023

of Population

- Rainfed agri... 27.4%
- Irrigated agricultural land 68.4%

Travel time/distance from settlement to POI

Settlement Palran

Language Dari

District Tagab

Province Badakhshan

Closest Road

Closest Airport

Closest Province Capital

Its Province Capital

Travel time : 18 Distance : 41 m

Fayzabad Travel time : 10 Distance : 170 km

NE

Faiz Abad Travel time : 10 Distance : 160 km

NE

Faiz Abad Travel time : 10 hours 7 Distance : 160 km

Current snow cover and likelihood calendar

Settlement Palran

Language Dari

District Tagab

Province Badakhshan

Approx. Current Snow Depth

Snow Cover Calendar

Very high

High

Average

Low

Very low

No Snow

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

Flood risk and forecast

Settlement Inspector

Palran

General Information Accessibilities Snow Cover and forecasted Flood and Forecasted

Province Badakhshan

Elevation 1862.5 m above sea level

Area 15.6 km²

Total Population 1023

Flood Forecast Exposure

- Very Low
- Low
- Moderate
- High
- Very High

Number of population

1,200

900

600

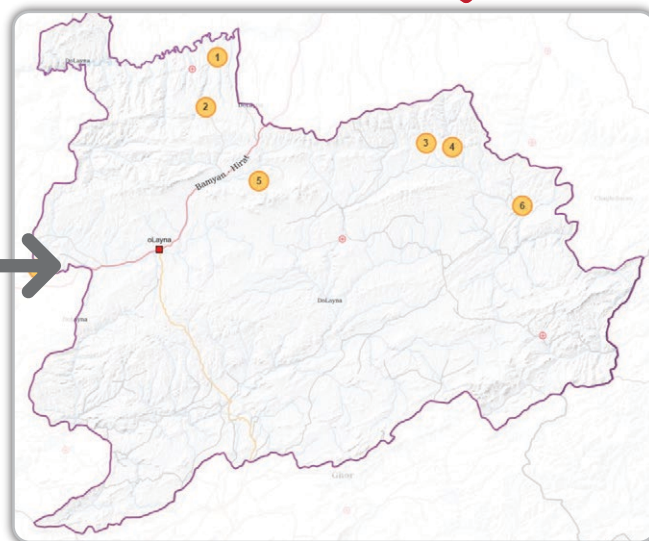
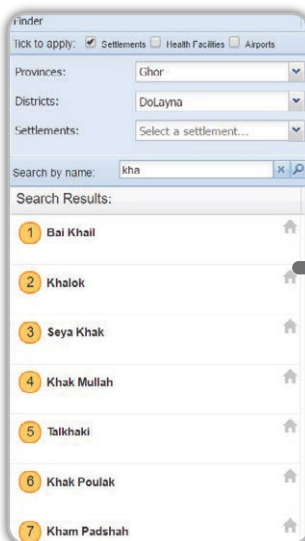
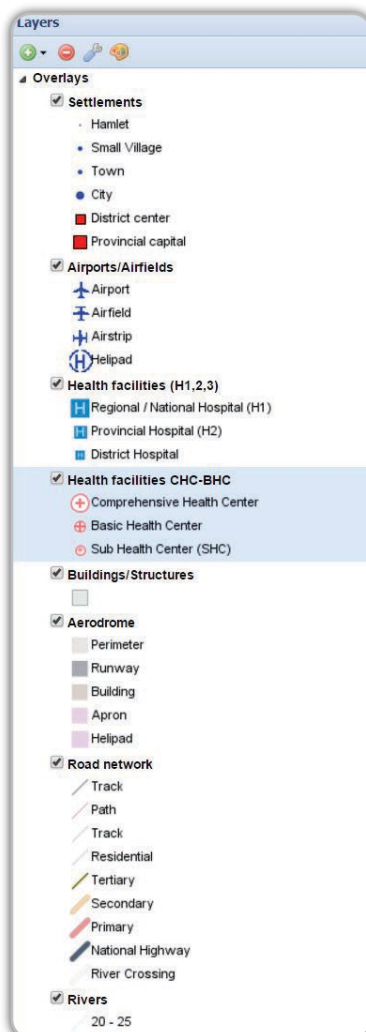
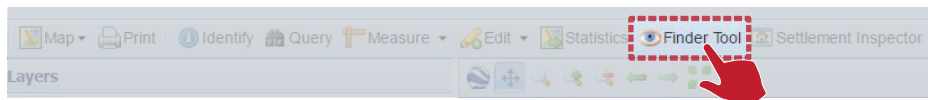
300

0

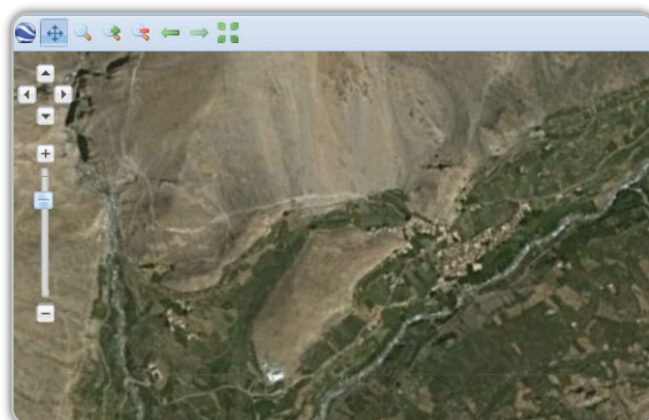
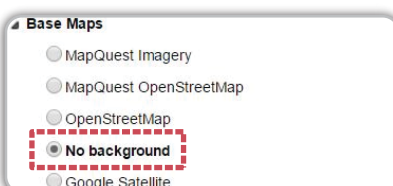
River Flood Flash Flood



Finder tool quickly locates airports, hospitals and settlements.



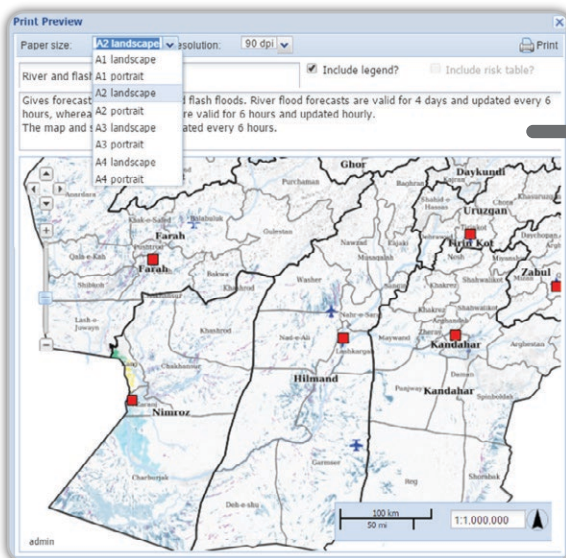
Select only the features of your interest and turn satellite background imagery on or off as desired. The navigation menu can be used to pan, zoom and go back/forward to the previous extent.



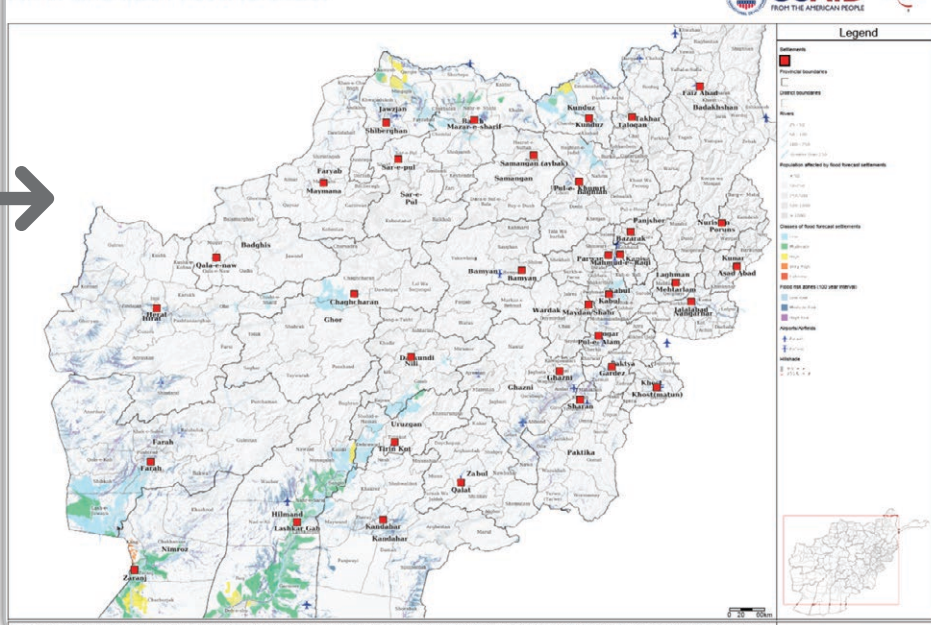
7 Print maps in landscape or portrait A1-A4



Export an interactive map of your region of interest to either in portrait or landscape to an A1 - A2 - A3 - A4 Pdf file. Subsequently the file can be distributed via email, plotted or printed .



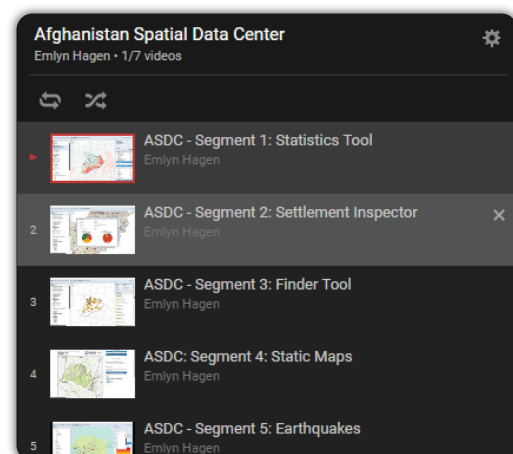
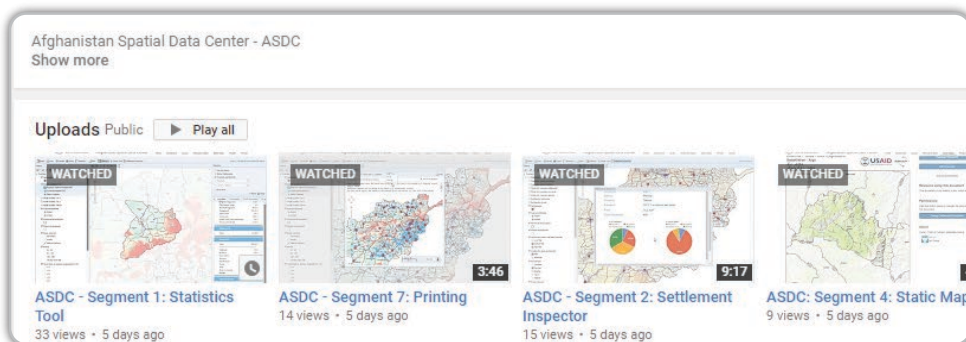
River and flash flood forecast



8 Instruction videos and training



Basic instruction videos can be found on YouTube and on the ASDC (available in Dari and English).
A training program with certification is under development.



Make an appointment at the iMMAP offices in Kabul for training, alternatively 30-20 minute telephone walkthrough training sessions are available.

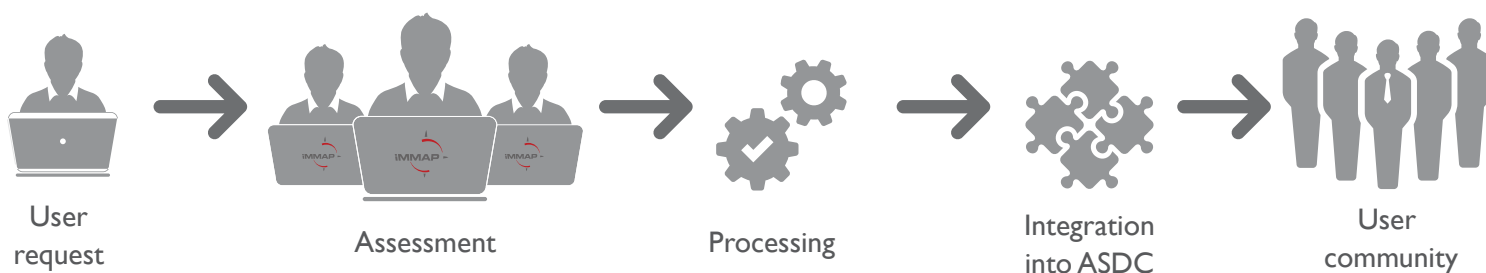
9 Integrate ASDC in your operational workflow



The ASDC is a powerful tool which can support daily operations. In Afghanistan the security situation is monitored on a daily basis. If floods and avalanches can affect your ground operations or if you are part of emergency response, the ASDC should be monitored daily as well.



10 Corrections and data sharing



The ASDC data is accessible through WMS. This allows ASDC data visualisation in your own geospatial software e.g. ESRI ArcGIS. Allowing your GIS department to focus on its core data sets within its expertise, whilst still being able to access the latest e.g. road network dataset.

Contact details



Afghanistan Spatial Data Center
Better Data | Better Decisions | Better Outcomes
iMMAP Afghanistan: Green Village, Supreme Rd, Kabul
Mobile: +93 (0)729509867
Email: afghanistan@immap.org
Website: www.immap.org