

MAP-X

Supporting the sustainable development of natural resources

Overview



- 1. Our mission, mandate and key findings
- 2. Introducing MAP-X
- 3. Going forward future areas of work
- 4. Questions and discussion



Our mission and mandate



UN Environment is the voice for the environment in the United Nations system. We promote the wise use of the planet's natural resources for sustainable development.

"Many conflicts are triggered, exacerbated or prolonged by competition over scarce natural resources; climate change will only make the situation worse.

That is why protecting our environment is critical to the founding goals of the United Nations to prevent war and sustain peace."

António Guterres, UN Secretary-General, 2017

Our work in conflict affected environments



Focus areas of UN Environment's post-conflict and disaster management branch include:

- Environment and disaster risk reduction
- Strategic assessments of post-conflict environments
- Research into the role natural resources play as a driver of conflict and opportunity for sustaining peace
- Practical tools to support the sustainable development of natural resources

Increasing emphasis on public private collaboration

Global context for natural resources development



What do we find?

- Increasing competition for resources
- Investment in frontier markets and fragile states
- Climate change effects
- Water crises
- Governance challenges
- Unequal distribution of benefits/ lack of access to information
- Interlinkages between resources, conflicts and organized crime

Global responses



- Consumer demand and private sector leadership in promoting responsible mineral supply chains
- Expansion of supply chain transparency legislation
- Spotlight on human rights, FPIC, shared benefits
- Emerging technologies: novel ways of engagement and increased access to information

However: Insufficient attention paid to environmental risks and environmental transparency

Regulatory responses are only part of the solution



A number of questions remain unresolved. How can importers:

- Access authoritative third party data to inform their policies/strategies?
- Contextualize data they collected?
- Relate the impact of their interventions to the broader socio-economic and environmental context?
- Effectively share their data with stakeholders upstream and/or downstream or other operators using an impartial platform?
- Assess and communicate the effectiveness of their efforts?
- Promote the long-term sustainable development of mineral resources?







Introducing MAP-X



MAP-X is an impartial online mapping platform to support the sustainable development of natural resources

Aggregates the best available data and assesses the integrity

Provides visualization and analytical tools

Offers customized dashboards for managing and monitoring data

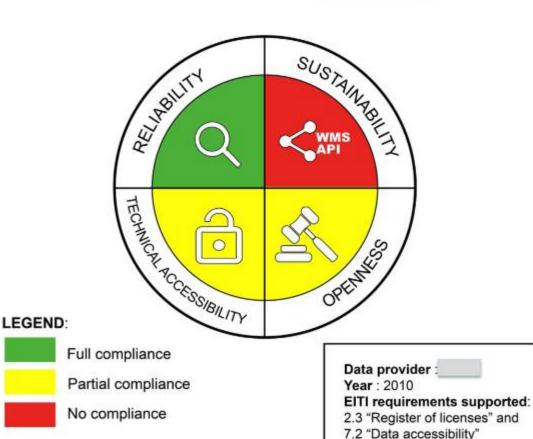
MAP-X mission: Help entities working in the natural resources sector to transform authoritative information into impact.

UN data integrity framework and authentication set MAP-X apart



Data Integrity Seal

Country (user selection): Democratic Republic of Congo Dataset scored (user selection):

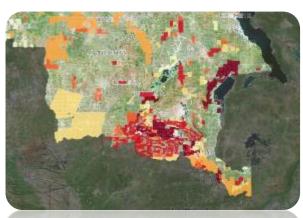


MAP-X analytical and visualization tools





Area of interest



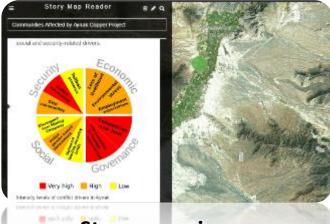
Heat Mapping



Dash boards



Overlapping layers



Story mapping



Satellite analysis

Supporting transparent and responsible mineral supply chains



MAP-X can support responsible supply chains and importers by creating a platform which is:



An impartial, trusted source of information



Easy to use, interactive and up to date



Fully customized and interoperable

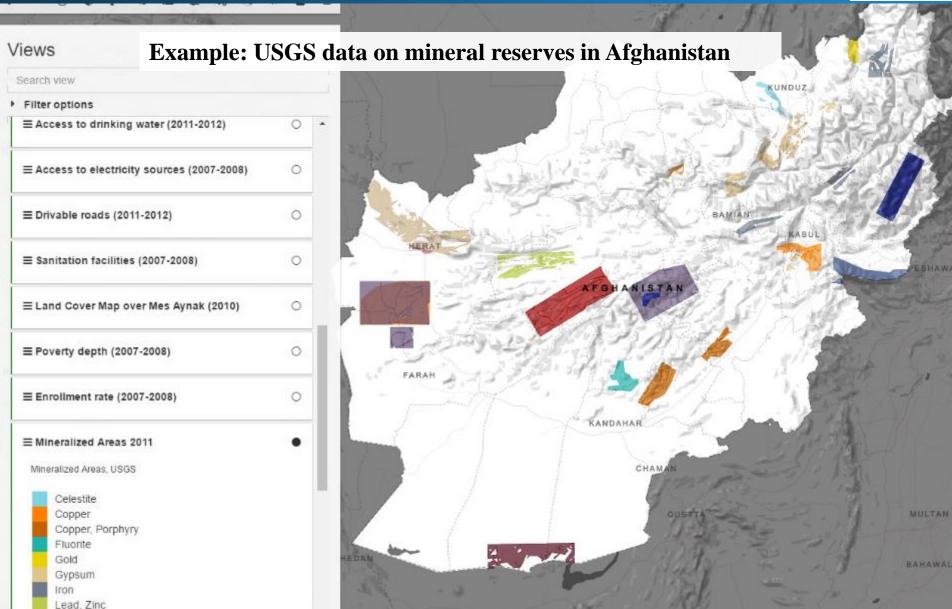


Supports company reporting by making data and maps available for download



Visualize distribution of mineral reserves

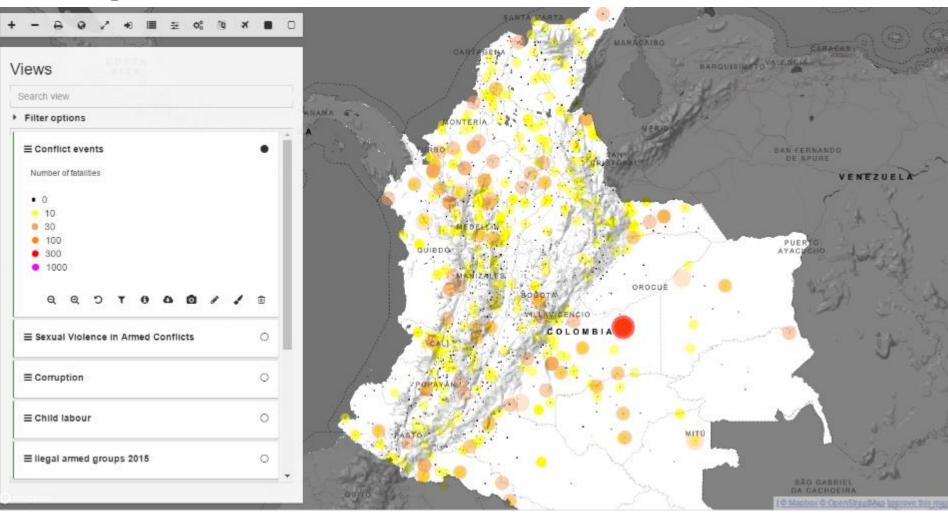


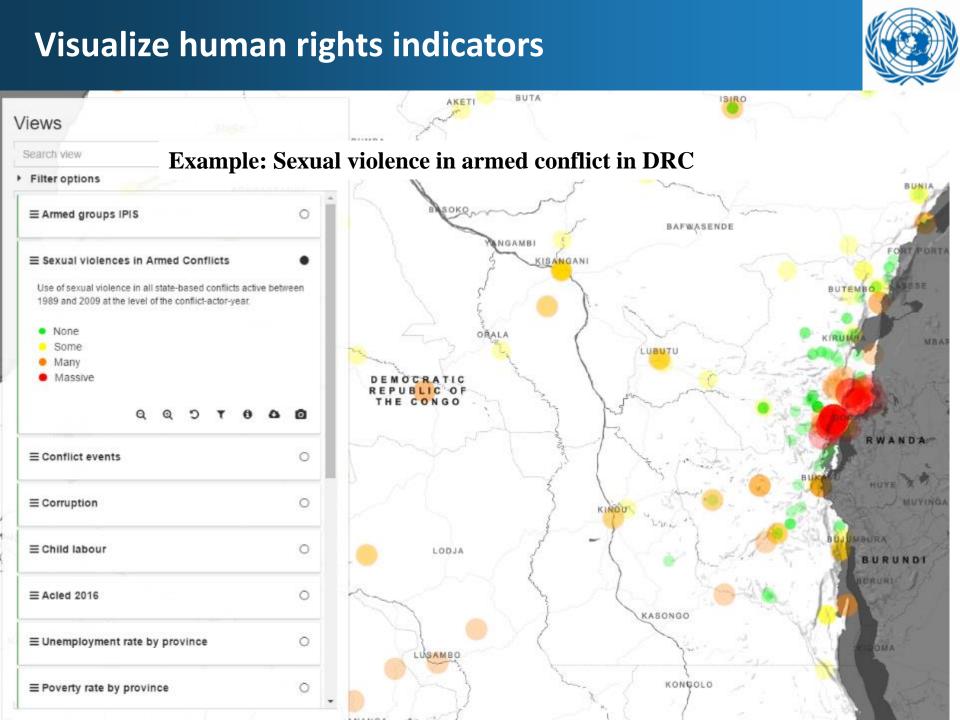


Visualize incidents of armed conflict



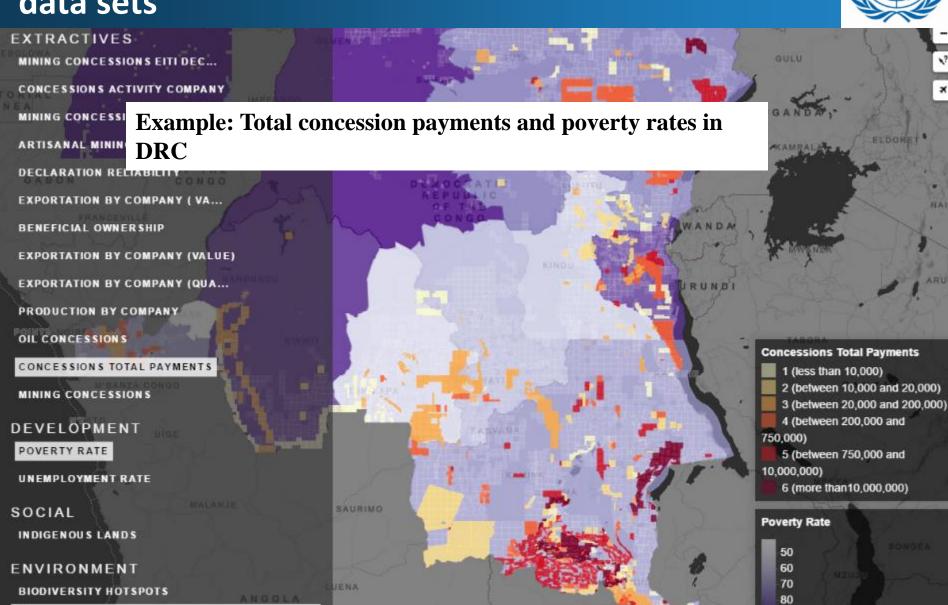
Example: Conflict events in Colombia





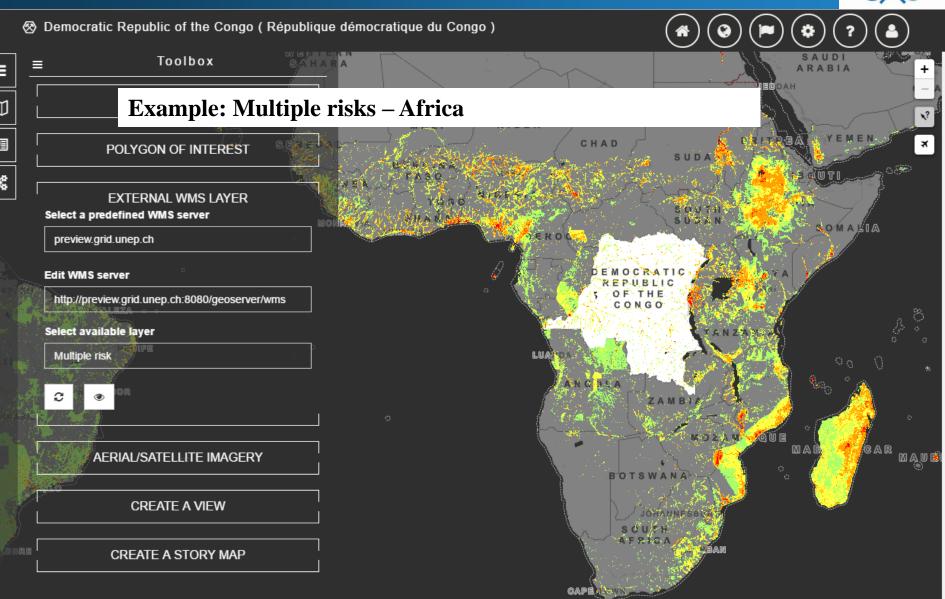
Create heatmaps and contextualize your data sets



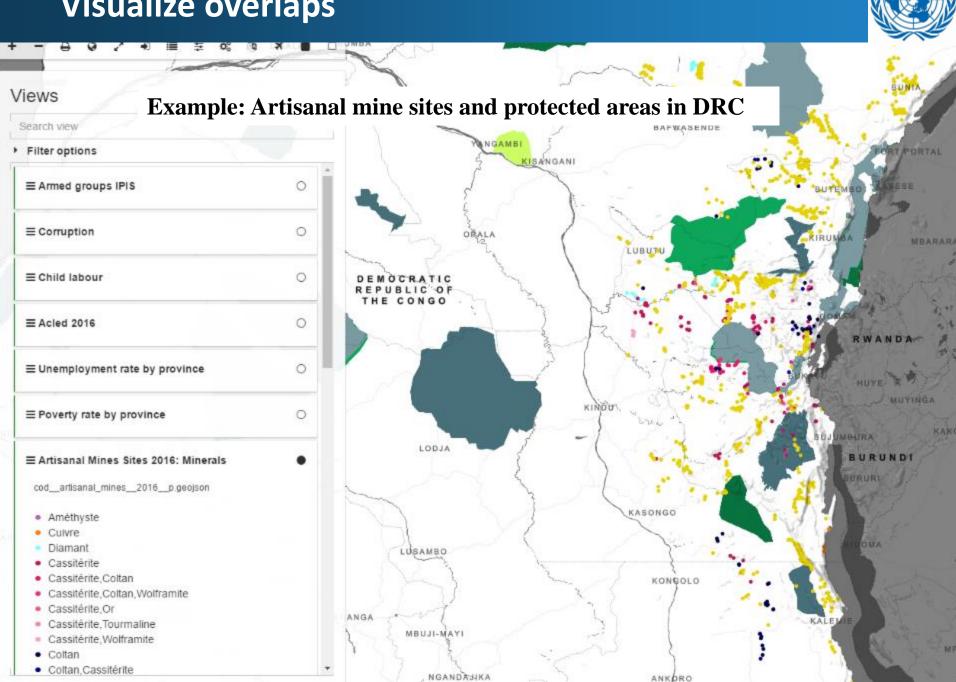


Visualize environmental risks – stream external data sources



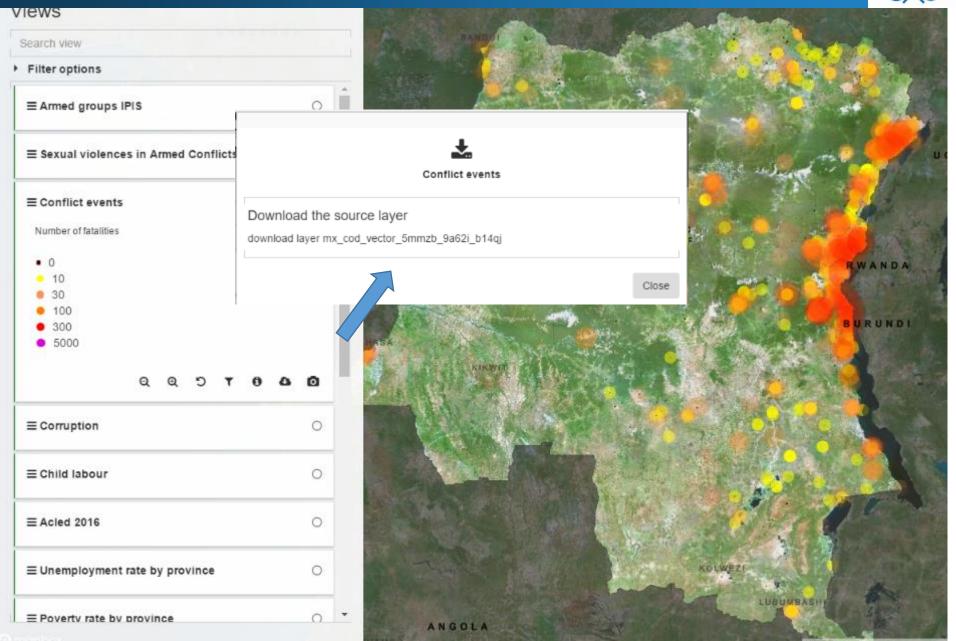


Visualize overlaps



Download maps and data for due diligence reports







Engagement priorities for MAP-X



- 1. Support implementation of mineral supply chain transparency initiatives
- 2. Support implementation of the Minamata Convention on mercury in the artisanal and small-scale gold mining sector
- 3. Support participatory decision making and monitoring of extractives projects
- 4. Support participatory environmental and territorial planning processes
- 5. Support conflict prevention and resolution in the natural resources sector by providing access to authoritative information

Recap: MAP-X core attributes





Impartial UN backed platform



Open source technologies allow for tailoring at low cost

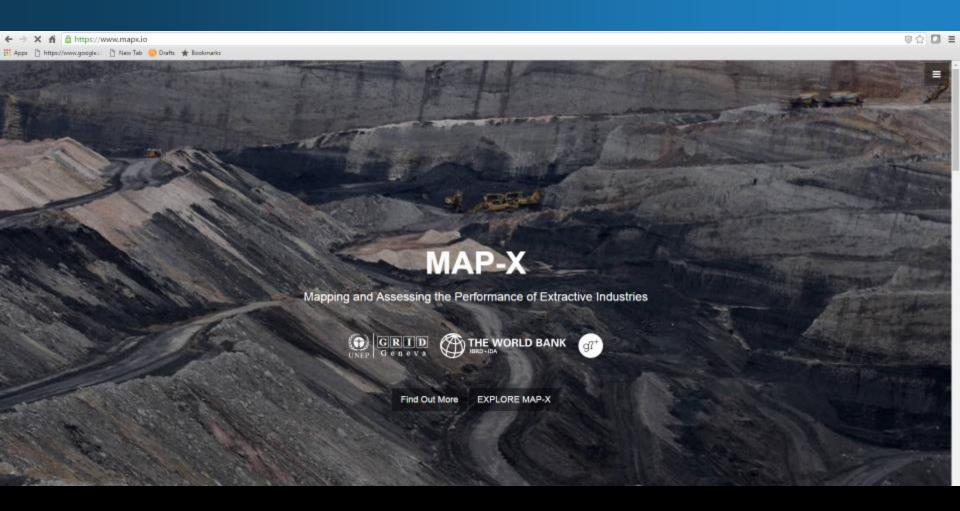


Cluster and cloud infrastructure can scale from local to global



Optimized for low-connectivity environments to allow global access

Visit our website: http://www.mapx.org



Impact begins with trusted information