

EO for sustainable development in areas affected by drugs and crime



UNODC
United Nations Office on Drugs and Crime

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DEPARTMENT OF
**OPERATIONAL
SUPPORT**

United Nations
Global
Service Centre



UNITED NATIONS
Office for Outer Space Affairs

WORLD DRUG PROBLEM



ORGANIZED CRIME



**CORRUPTION AND
ECONOMIC CRIME**



TERRORISM



**CRIME PREVENTION AND
CRIMINAL JUSTICE**



SDGs and thematic areas



EO example applications in UNODC

- Research for policy making, project planning and monitoring
 - To address drug production and trafficking: Illicit Crop Monitoring Programme
 - Monitoring of crop substitution projects
 - Monitoring of illegal mineral mines
- In support of law enforcement/anti-corruption programmes
 - Illicit crop eradication verification
 - Drug production sites and trafficking routes
 - Illegal logging/deforestation sites
 - Illegal fishing vessels

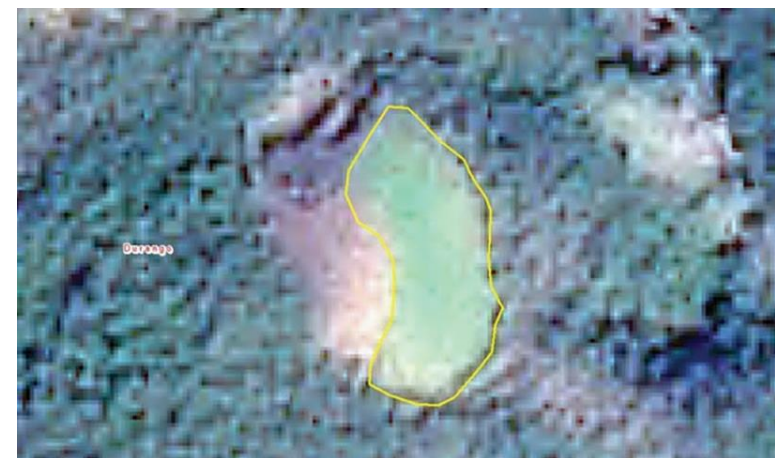


Illicit crop mapping with HR/VHR images

- Annual surveys in Afghanistan, Bolivia, Colombia, Mexico, Myanmar, Peru



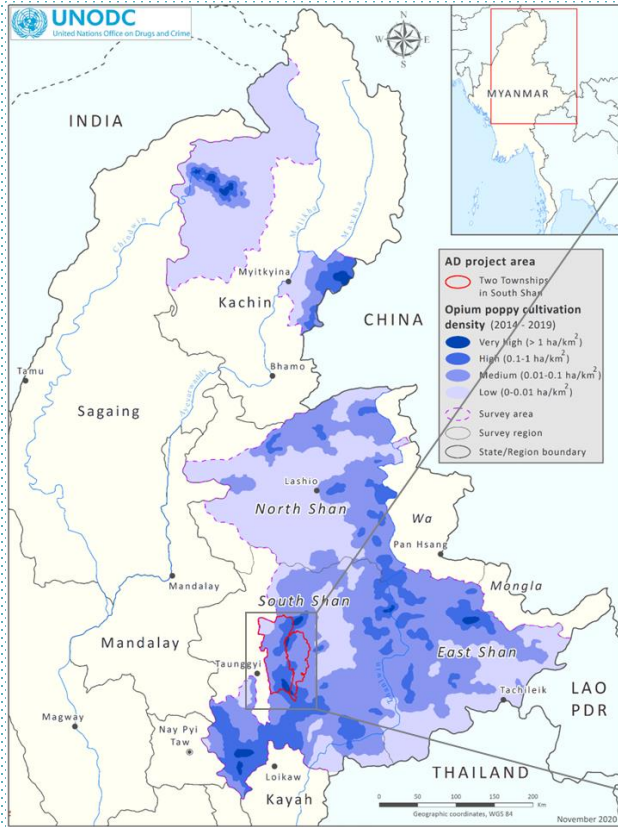
- Irrigated poppy field after sowing



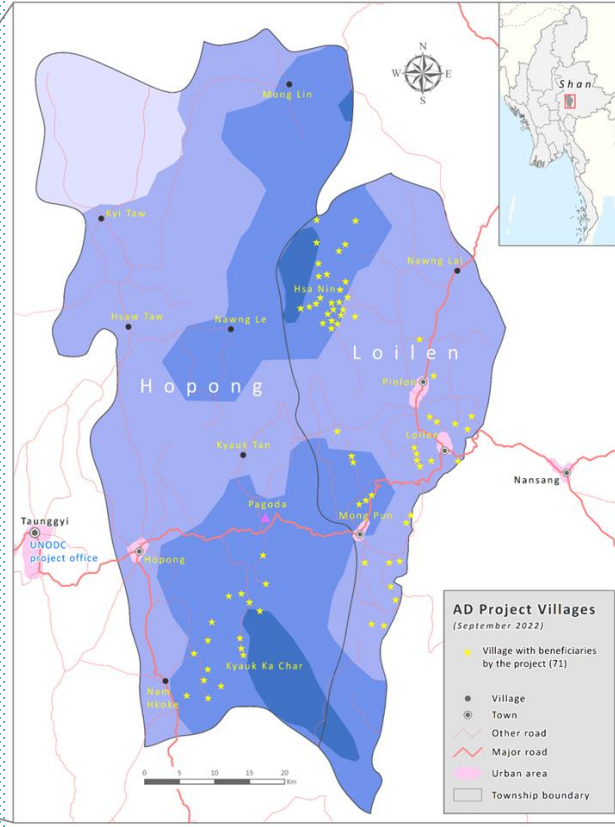
- Developed poppy crop



Opium Production Areas in Myanmar



AD Project Area in Shan State



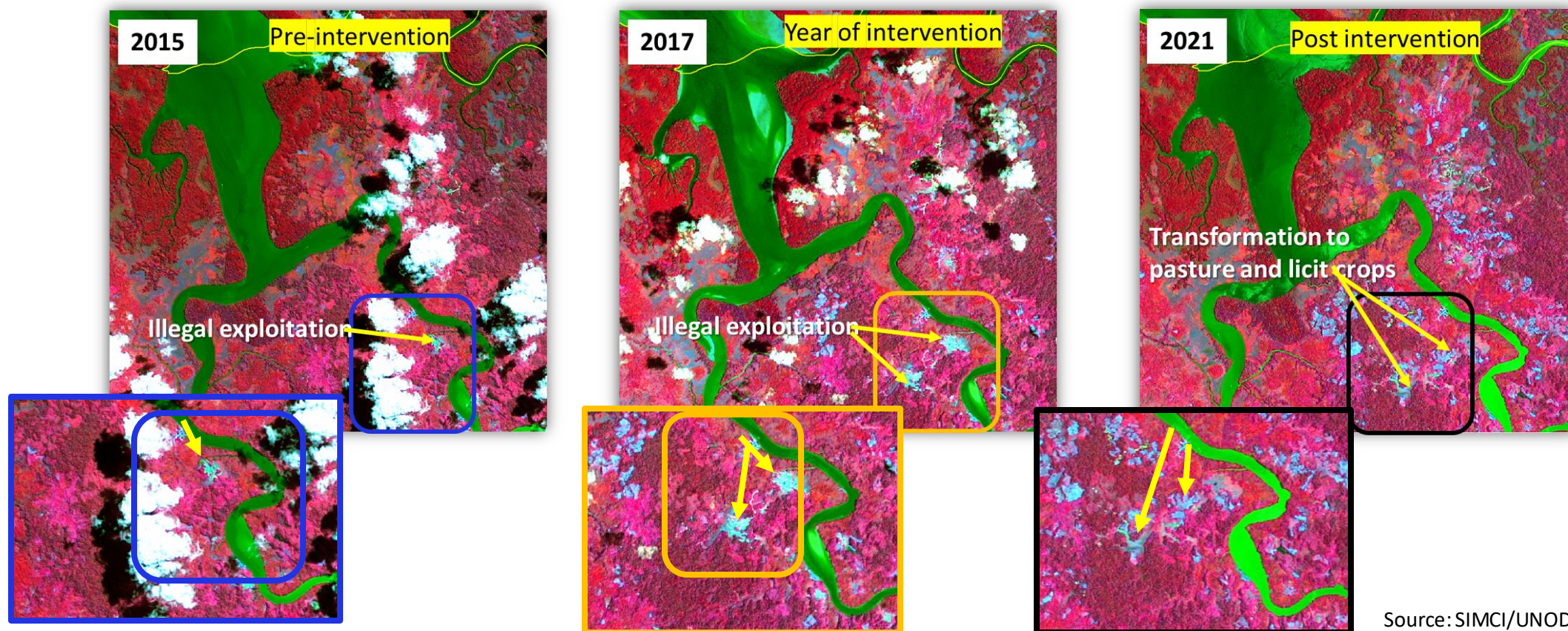
Planning development projects in opium growing areas in Myanmar

Illicit exploitation of gold  Participatory formalization process with mining communities



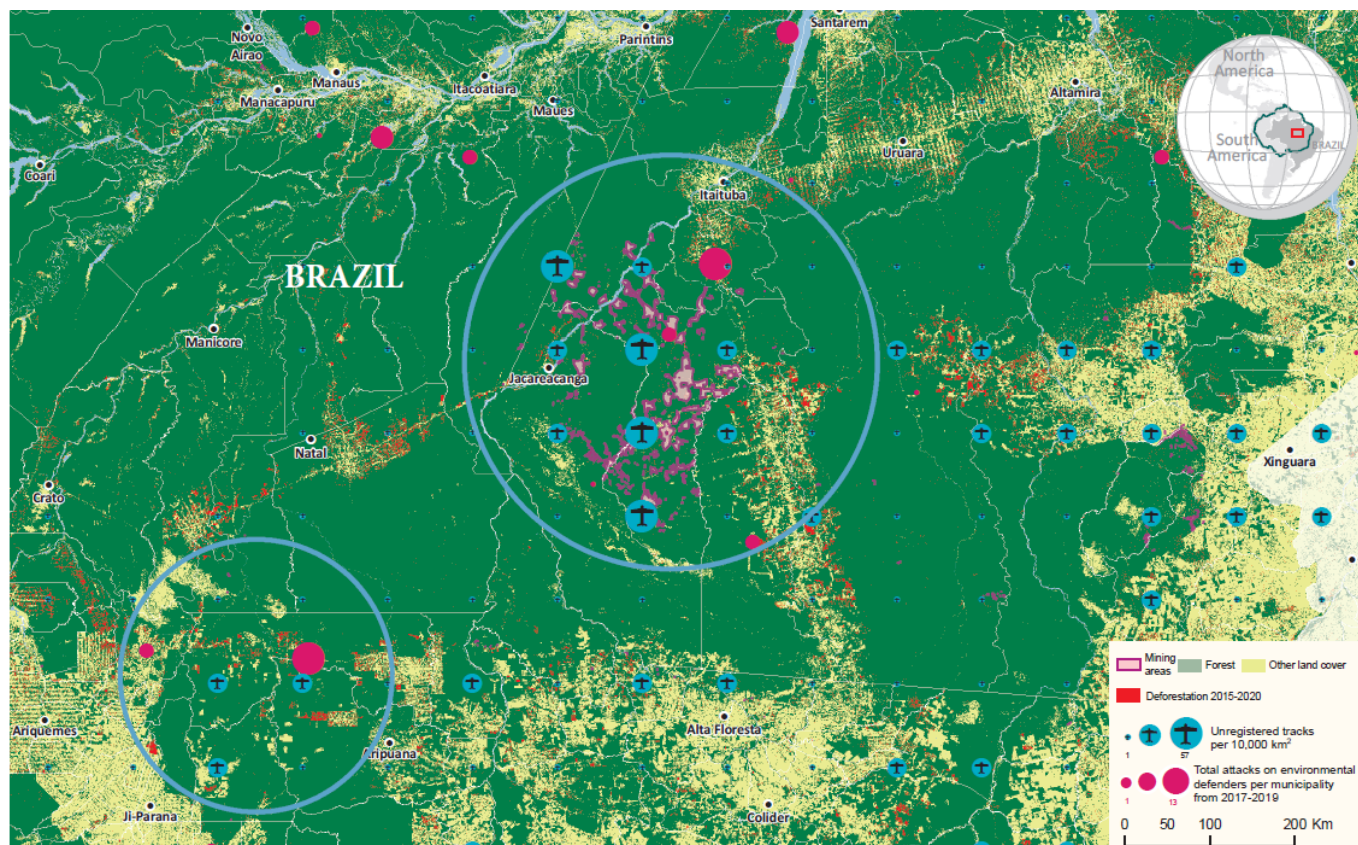
Territorial planning in cocaine gold producing areas in Colombia

Territorial spatial planning and monitoring



Automatized detection of unregistered landing strips in the Amazon





Convergence of crime

- EO derived:
 - Illicit crop cultivation area
 - Land cover
 - Deforestation
 - Mining areas
 - Unregistered air strips
- Other geographical data e.g.:
 - Attacks on environmental defenders
 - Homicides

Cooperation on developing EO applications

- Security applications to embed EO and non-EO information – illegal mining and other illegal activities: ESA- EO4SECURITY
- Risk maps for potential illicit crop cultivation – UNAM-Mexico and University of Salzburg
- GeoAI challenge for crop land mapping in Afghanistan – with ITU



GEO-AI Challenge for Cropland Mapping by ITU

Can you develop a cropland mapping tool with machine learning?

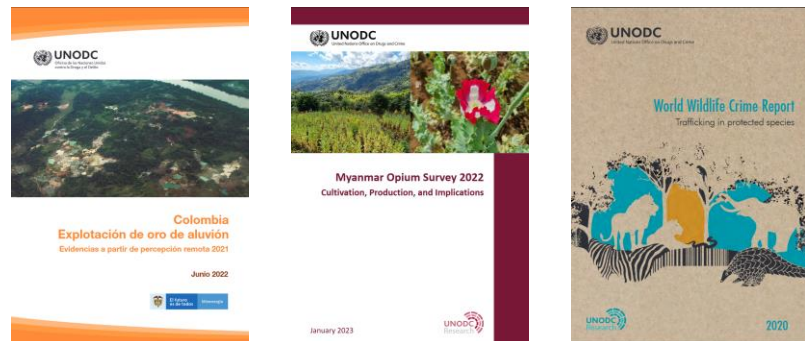
Prize	Time	Participants	Helping
\$4 000 USD	Ended 13 days ago	74 active · 325 enrolled	Iran (Islamic Republic of), Sudan and Afghanistan

Advanced Classification Agriculture

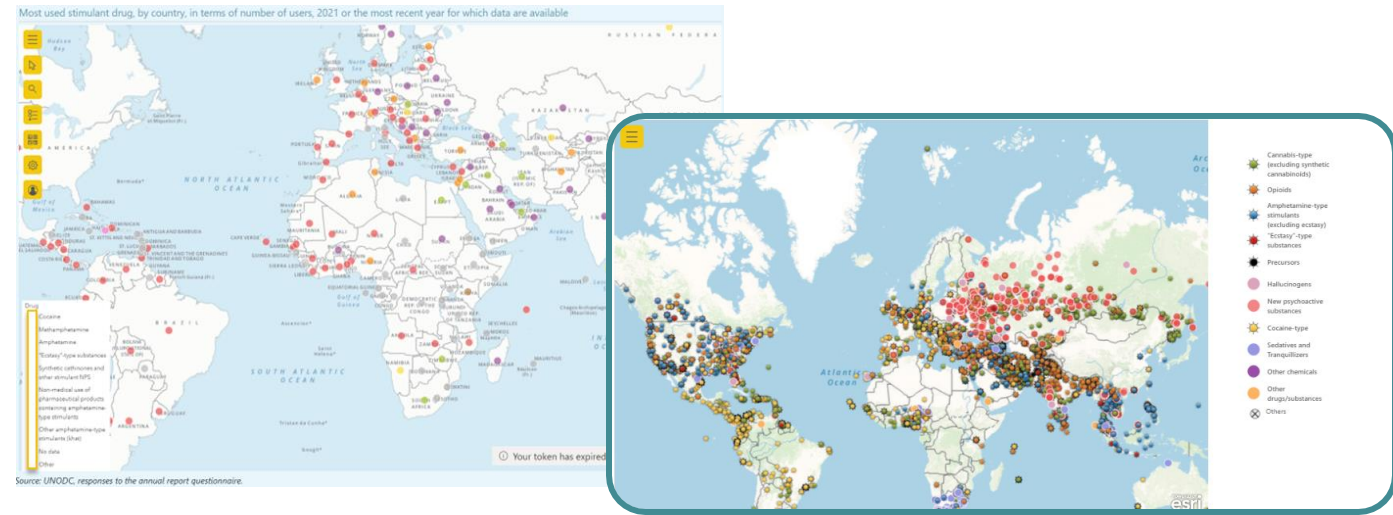
Geospatial research products



Story maps



Reports



Online portals:
[- World Drug Report](#)
[- Drug Monitoring Platform](#)

THANK YOU



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