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ASGM: GOOD LINKAGES, BETTER OUTCOMES. LESSONS LEARNED FROM THE PERUVIAN CASE

Conference of the Parties – 3
Geneva - Switzerland

Knowledge Labs
Wednesday 27 November

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AGSM and illegal mining

Our context

300-400 thousands artisanal miners work in the 24 regions of Peru



1-1.5 millions of peruvians work directly and indirectly in ASGM sector



145 tons of mercury is used in ASGM sector in Peru



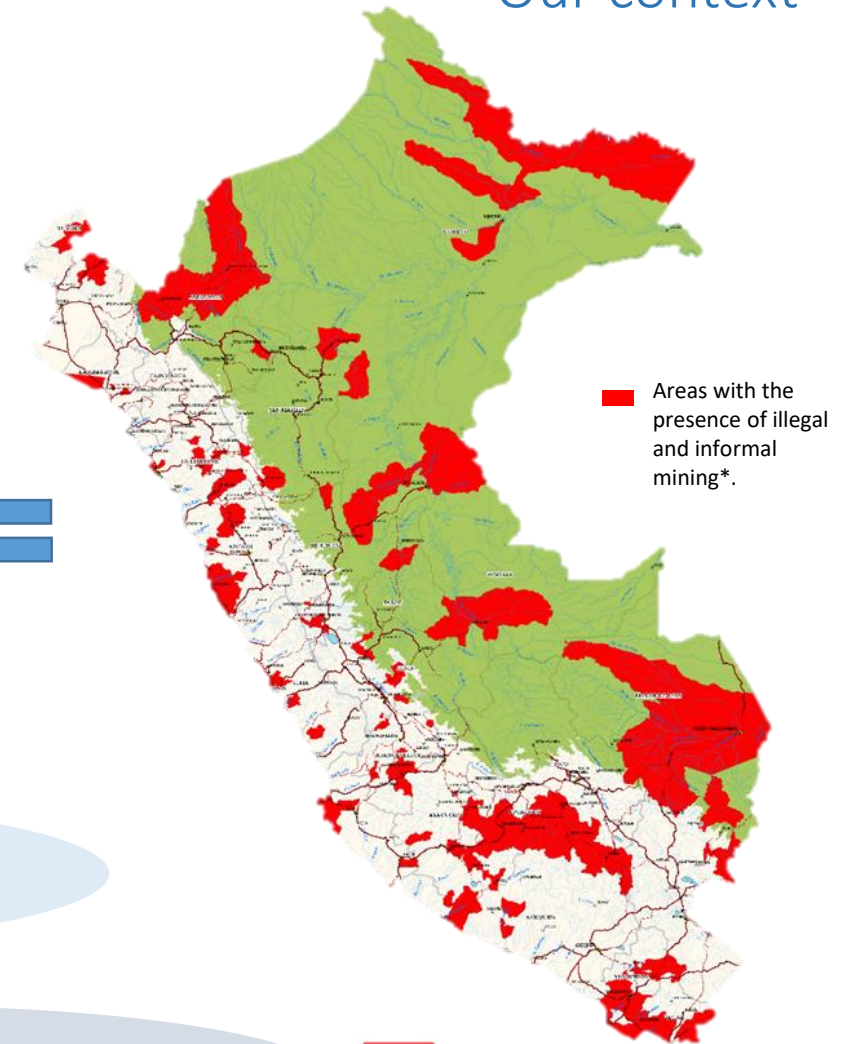
65 thousands of hectares deforested between 2010-2017 in Madre de Dios



20% of the 150 ton/year of gold produced in Peru come from ASGM



1kg of gold vs 2.8kg of mercury is the average consume

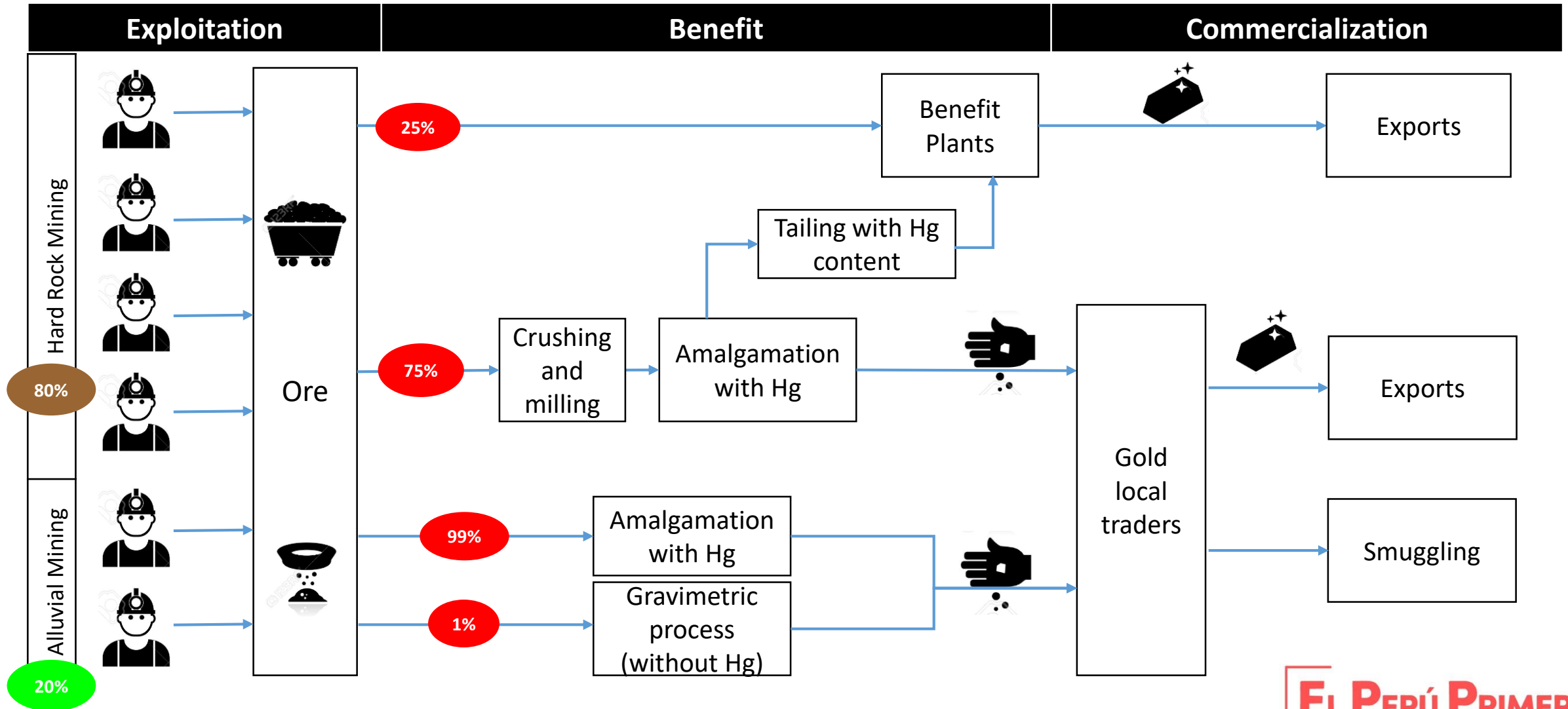


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(*) Fuente: Informe defensorial 167, 2014

The gold route of ASGM

Current situation



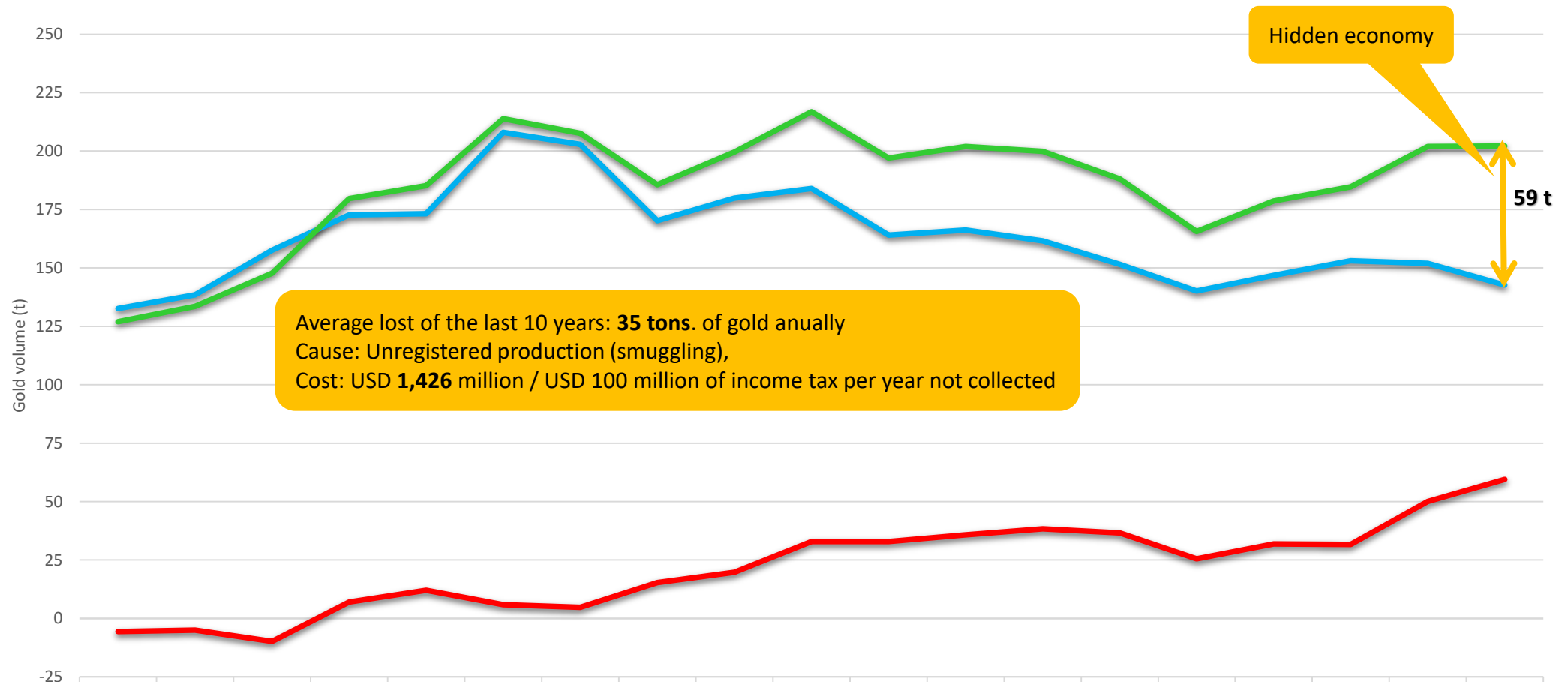


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Historic gold export and production gap (2000-2018)

Current situation



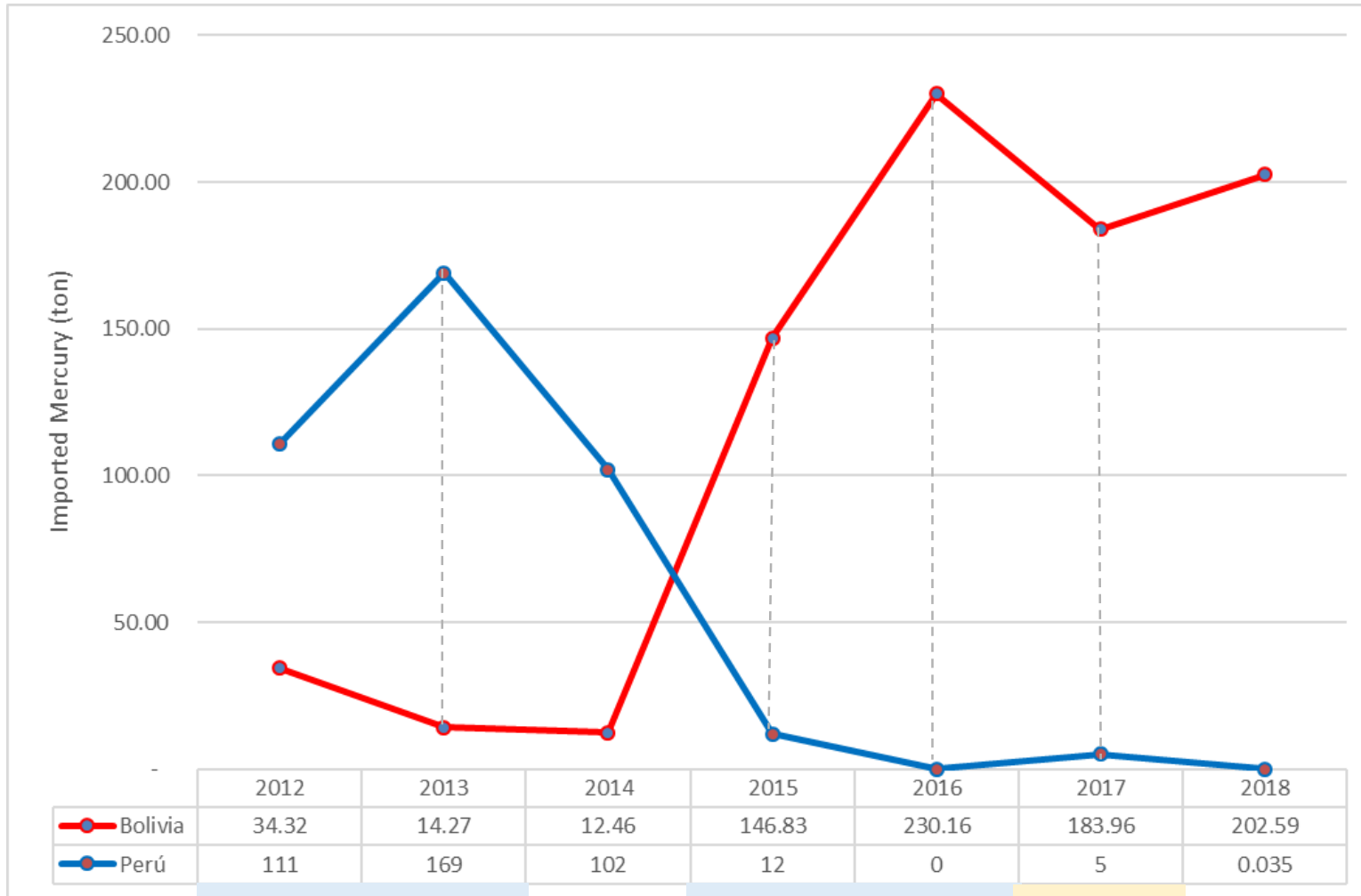
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Production (t)	132.59	138.52	157.53	172.63	173.22	208.00	202.83	170.24	179.87	183.99	164.08	166.19	161.54	151.49	140.1	146.82	153.01	151.96	142.64
Export (t)	126.99	133.57	147.75	179.68	185.24	213.86	207.58	185.61	199.61	216.86	197.03	201.93	199.9	188.09	165.58	178.65	184.65	201.97	202.12
Gap (t)	-5.60	-4.95	-9.78	7.05	12.02	5.86	4.75	15.37	19.74	32.87	32.95	35.74	38.36	36.60	25.48	31.83	31.64	50.01	59.48



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Mercury flow Trazability



Mercury is included as an IQBF
04/03/2012

Perú Signature of MCM
10/10/2013

Perú Ratify the MCM
24/11/2015

Perú MAP del MCM
22/07/2016

In the World MCM enters into force
16/08/2017

- At least 145 tons of mercury per year is used in ASGM in Peru*.
- Mercury **black market**.
- Lack of control of **smuggling** at borders.

(*) Source: UNEP, "Global Mercury: supply, trade and demand", 2017)





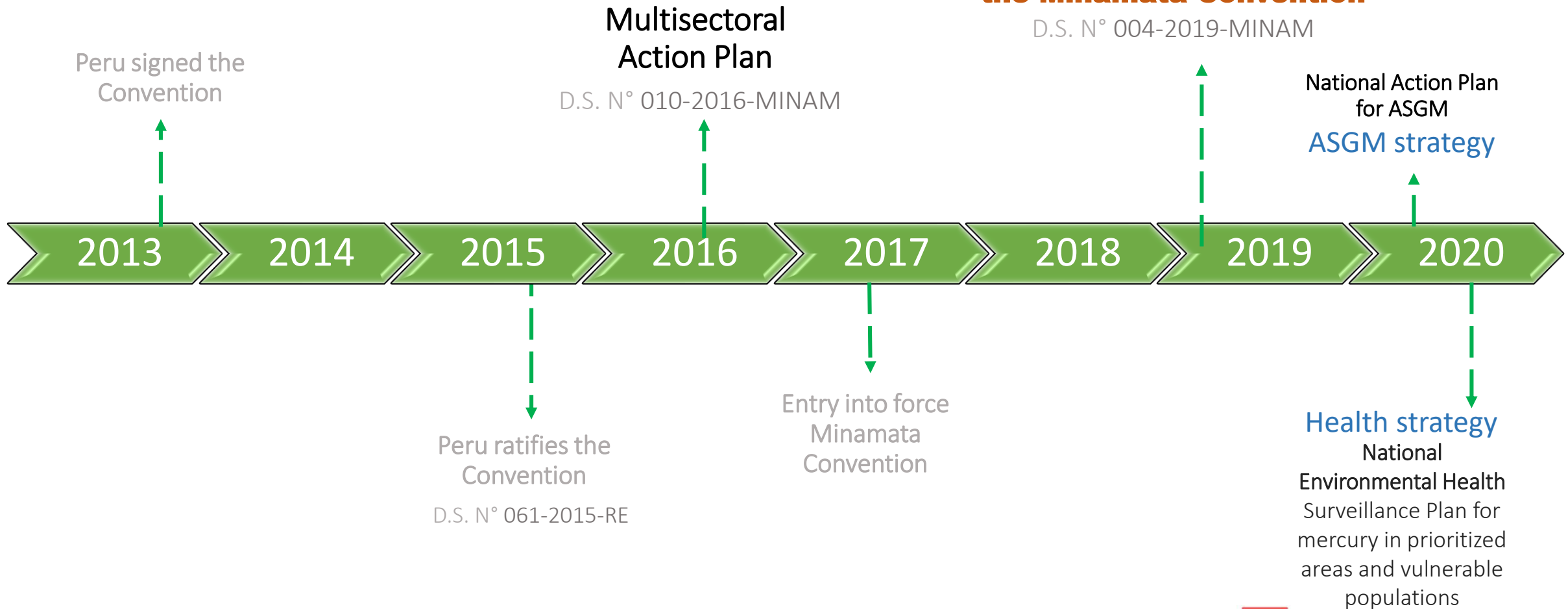
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Minamata Convention Implementation

National Implementation Plan of the Minamata Convention

D.S. N° 004-2019-MINAM



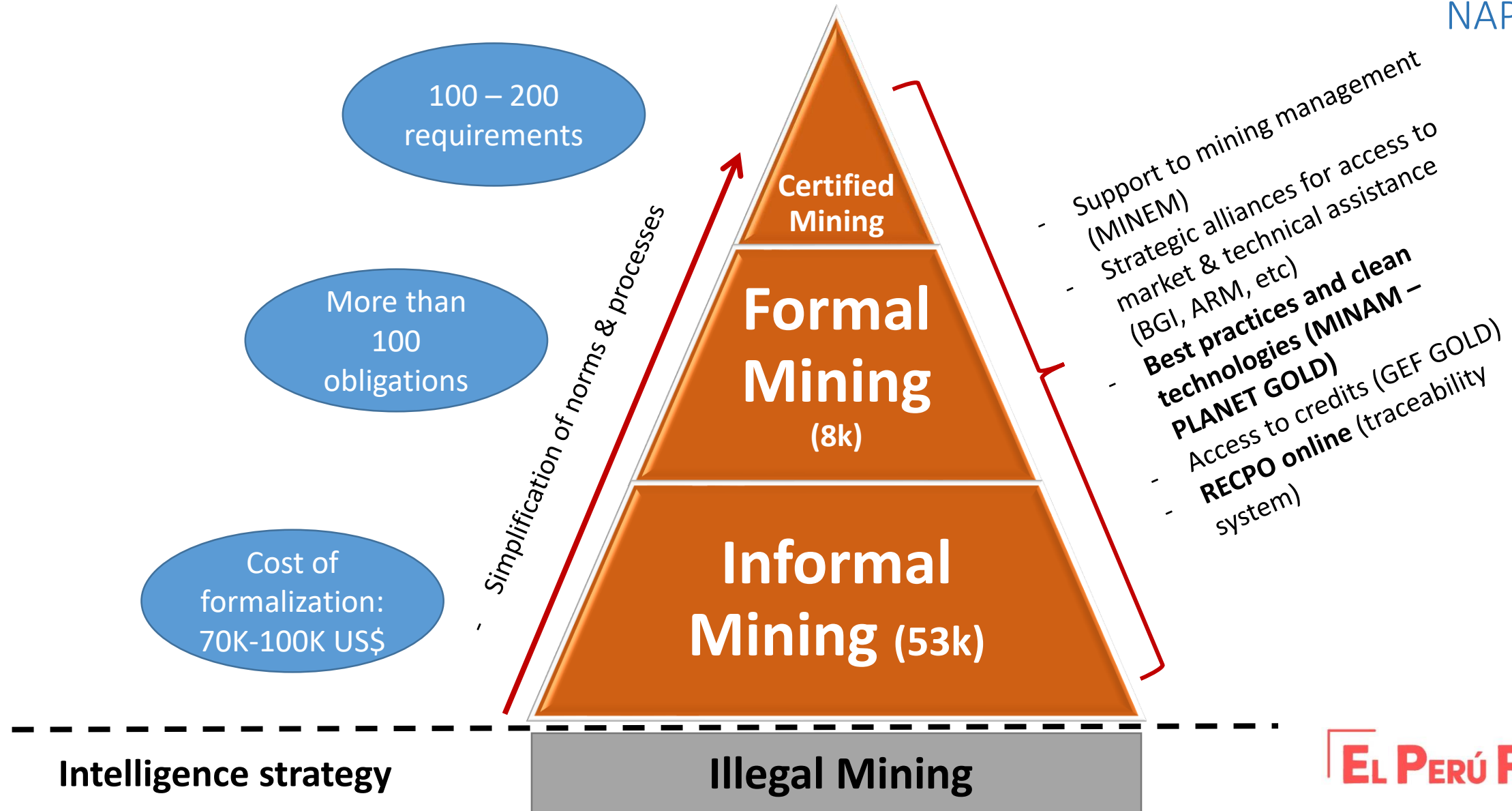
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National Strategy NAP ASGM



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National Action Plan for ASGM

8 Strategies, Multisectorial participation

Formalization and post-formalization



Reduction of mercury emissions and releases



Trade management



Participation and communication of stakeholders



Health strategy



Illegal mining prevention



Work conditions



Reclamation / remediation





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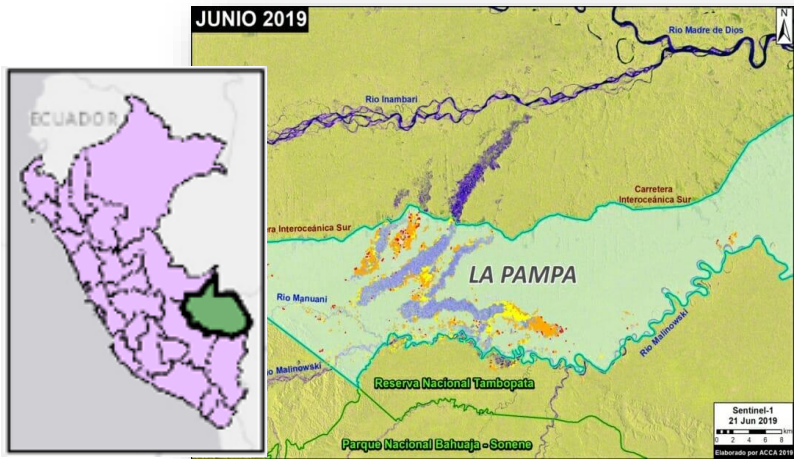


Image 2: Illegal zone called "La Pampa", Tambopata buffer.

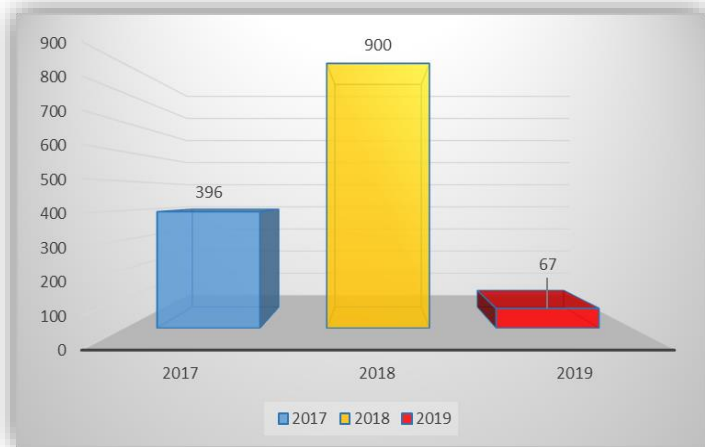


Image 4: Deceleration of deforestation in "La Pampa" (92%), Feb – Jun 2017/2019.



Image 3: Government, police and army intervened the illegal miners.



Image 1: Illegal alluvial mining in Madre de Dios

Mercury Operation 2019

Illegal mining eradication

759 ha remediation
Tambopata National Reserve



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Coordinated Actions

Trade management



Andean Community

Trough Decision 844 created the **Andean Observatory responsible for the management of official information regarding Mercury**

Country	Mercury (ton) used in ASGM
Colombia	180
Ecuador	85
Peru	145
Bolivia	120
Total	530

Source: UNEP, "Global Mercury: supply, trade and demand", 2017

Need to develop a platform to share information about mercury flows in real time.



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National Action Plan for ASGM

Best practices and clean technologies

Identification of 05 technologies (Gravimetric System):

- Gravimetric table
- Deslamadora box
- Vertical centrifuge
- Horizontal centrifuge
- Dry concentrator

Clean technologies identification (2016-2019)

13 workshops in 06 departments:

- **Arequipa** (Arequipa, Secocha, Chala).
- **Cusco** (Camanti).
- **Huánuco** (Puerto Inca)
- **Ica** (Palpa, Nazca).
- **Puno** (Ananea, Juliaca).
- **Madre de Dios** (Tambopata y Madre de Dios).

2 internships in 02 departments:

- **Puno** (Ananea).
- **Lima** (Carabayllo).

Intervention (2016-2019)

More than **82 mining groups** from different departments, training more than **600 people**, of which only in the year 2019 about **10% were women**.

Beneficiaries

3 internships: Trujillo-Piura, Arequipa-Puno-Ayacucho, Madre de Dios.

Projection 2020

<https://youtu.be/DQ67nNRUO5A>

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Diffusion of exposure due to the use of mercury

Although the role of women in the gold production process is not visible, they have an important participation in the gold value chain, directly and indirectly.

Direct linking:

- Mining sorter (recycler, pallaquera or chichiquera),
- Component of hours / man-worker (grinding or refueling stage),
- Mining and marketing holders, Personal administrative.

Indirect Linking:

- Secondary activities (Services, provision of food, drink, tools and equipment),
- Gold Marketing

**Gap Identification
(2019)**

06 workshops in 04 departments:

- **Arequipa** (Chala).
- **Huánuco** (Puerto Inca)
- **Ica** (El Ingenio).
- **Puno** (Ananea).

**Intervention
(2019)**

More than **15 mining groups** from different departments, more than **300 people** trained (**47% are women**).

**Beneficiaries
(2019)**

3 internships: Trujillo-Piura, Arequipa-Puno-Ayacucho, Madre de Dios.

**Projection
(2020)**



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Certified Mining

Advance

1  Kenia

1  Mongolia

3 

19 

1 

Peru is the leading producer country of certified gold

Fairmined = 4

Fairtrade = 13

RJC = 2

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National Environmental Health Surveillance Plan for Mercury in Prioritized Areas and Vulnerable Populations

5 steps, Multisectorial participation

Prioritization of activities associated with mercury



Prioritization of regions with predominance of identified activities



Prioritization of zones in the regions identified



Identification of watersheds in prioritized areas



Application of criteria for environmental health surveillance



Challenges and beyond

- ✓ **Increase trust among miners** to adopt better practices
- ✓ **Share information about mercury exposure, especially among vulnerable populations** (health, and consumption diet by region)
- ✓ **Strengthen intelligence** and regional coordination actions to control the flow of illegal mercury across the border with Bolivia; and prevent smuggling

- ✓ **There is no place for temporary storage and final disposal for mercury.** Most of the mercury seized is stored in the police's drawers.
- ✓ **Increase incentives** for formalization and access to international and responsible markets



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Better Gold Initiative
Oro Responsable

Certified Mining

The Better Gold Initiative

The Better Gold Initiative in a nutshell:



A Swiss Public-Private Partnership between State Secretariat for Economic Affairs (SECO) and Swiss Better Gold Association

Phase I 2013 – 2016: implemented in Peru

Phase II 2017 – 2020: Peru, Colombia, and Bolivia

Official agreement with Ministry of Environment, and Mining Ministry

Technical Assistance, Policy Dialogue and Demand

In coordination with voluntary certification systems (FT, FM, RJC)

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Technical Assistance for responsible mining

In Peru more than 20 ASMO supported by BGI

820 kg of responsibly produced gold exported from Peru during the first semester 2019

Peru remain main producer of responsible ASM gold

Way to cleaner technologies can be long, for that reason assistance important (example SOTRAMI)

Market incentives and long term partnership need to contribute to responsible practice

Mine	Technical Assistance
Oro Puno	Support Fairmined certificate
MACDESA	Support Fairtrade certificate
CECOMSAP	GAP Analysis
CECOMIP	Assistance shaking table and direct smelting of gold concentrate
SOTRAMI	Assistance RJC certificate, including ICMI certificate
CENCOMIN	Assistance Fairmined certification



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Thank you

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