

Mapping Artisanal and Small-Scale Mining to the Sustainable Development Goals

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building DEJAWARE.

MINERALS, MATERIALS

AND SOCIETY

pact

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Findings

FORMALIZATION PROCESS

'INFORMAL'



Positive contributions to nearly all SDGs, but also negative impacts

Formalization mitigates
negative impacts and
amplifies positive impacts on
the SDGs

'FORMAL'



IMPACTS



NEGATIVE

POSITIVE & NEGATIVE







Comprehensive formalization process



Geoprospect & allocate land for ASM

Facilitate miners' organization

License & regulate ASM

Organize the supply chain

Facilitate access to finance, assistance & markets

Monitor & enforce ASM regulations

Provide continuous support to ASM actors

UNITAR & UNEP (2018) Formalization Handbook
McQuilken & Hilson (2016) ASM in Ghana. Evidence to Inform Action Dialogue. IIED.





Economic development



X NEGATIVE



Europe & Central Asia

10,000 / 0%

- Job creation in poor areas
- Linkages to local economy
- Youth employment
- Development minerals

- Possible 'poverty trap'
- Poor OHS
- Limited labor rights
- Poor access to govt. services
- Inefficient processing
- Chemical pollution

Global: 41,489,796 (Delve data as of June 2020)

East Asia & Pacific 10.552,100 / 26%











Economic development









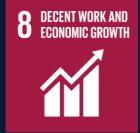
FORMALIZATION IMPACT

- + Facilitates equal rights to land, mineral resources, technology, training, finance
- † Increases govt. revenues
- Unlocks contribution to GDP
- + Reduces informal labor & child labor
- Facilitates responsible & sustainable mining practices
- Circularity: waste & tailings

But...

Can prioritize better-connected smallscale miners over artisans, leaving the poorest left behind











Social development





- Revenues for education
- On-the-job learning
- Resilience
- Empower women & marginalized
- Increased incomes for bottom 40%

- School dropouts
- Women confined to secondary roles
- Unequal power relations
- Exploitation & exclusion











Social development



FORMALIZATION IMPACT

- + Reduces child labor
- Supports TVET, apprenticeships, scholarships in ASM and related skills
- + Enhances women's access to resources, productive assets and participation
- + Social, economic, & political inclusion

But...

- X Exclude women & perpetuate inequalities
- X Top-down approaches increase exclusion











Environmental stewardship





- Critical raw materials for renewable energy
- Resilience & adaption to climate shocks
- Construction materials

- Deforestation
- Environmental degradation
- Biodiversity loss
- Degrades marine & coastal areas
- Can occur in protected areas
- 'Dirty' energy for production











Environmental stewardship



- + Climate mitigation strategies
- + Transition to low-carbon economy
- + Facilitates monitoring & enforcement
- + Incentivizes rehabilitation
- + Optimizes multisectoral land use planning
- + Enhances long-term investment in land











Nutrition & healthy lives





- Interlocks with subsistence agriculture
- Supports local markets
- Increases resilience to shocks

- Destruction of farmland & water bodies
- Distorts local food markets
- Occupational health and safety
- HIV/AIDS & infectious diseases











Nutrition & healthy lives



- + Incentivizes investments in agriculture
- + Enhance positive synergies: ASM & agriculture
- + Addresses land use related conflicts
- + Reclamation
- Reduces health & safety risks
- + Improves long-term health outcomes
- + Resilience to emerging health threats
- + WASH infrastructure











Clean energy, infrastructure, sustainable cities





- Less energy intensive
- Energy infrastructure
- Diversification
- Innovation
- Construction materials
- Invest in housing
- Reduce urbanization & migration

- Uses 'dirty' energy forms
- Poor infrastructure & housing in rush scenarios











Clean energy, infrastructure, sustainable cities



- Fees, tax & royalties to fund investment in infrastructure
- Attractive to long-term investment & development
- Source of raw & value add material for energy & infrastructure projects
- Innovation of more sustainable processing & industrialization
- Security of tenure increases investment in housing



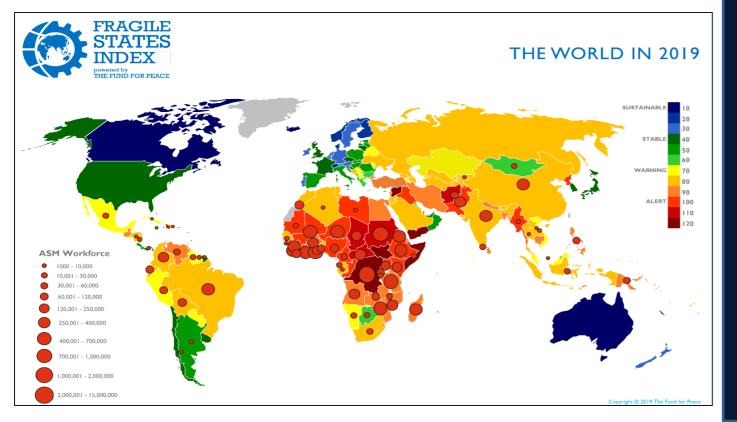








Peace, justice and governance



+ POSITIVE

- Transitions youth & ex-combatants out of armed groups & criminality
- Instills a culture of peace
- Social safety net
- Supports institutions in crises

- Links to
 organized
 crime, financing
 of conflict &
 terrorism
- Human rights abuses, corruption, bribery, illicit financial flows
- Poor governance







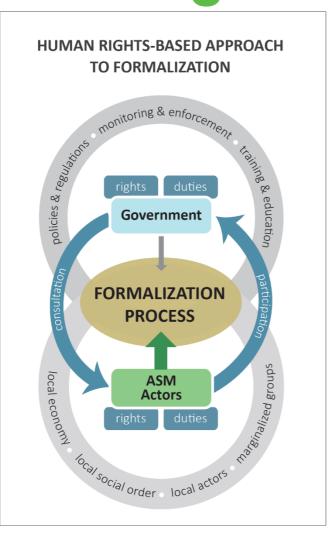






Peace, justice and governance FORMALIZATION IMPACT





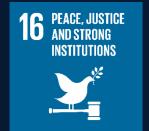
+ Delinks ASM from insecurity

state-building processes

- Facilitates land tenure, labour rights, protection of human rights
- Can address the root causes of conflict
 Supports long-term peacebuilding and

But...

X Top-down approaches perpetuate inequalities & cause grievances, possibly leading to conflict













Partnerships





- + Brings together stakeholders from civil society, public & private sector
- + Diversifies development assistance through private sector engagement
- + Knowledge & technology transfer

- + Helps to 'de-risk' ASM
- → ASM formalization can revitalize global partnerships for sustainable development







Conclusion

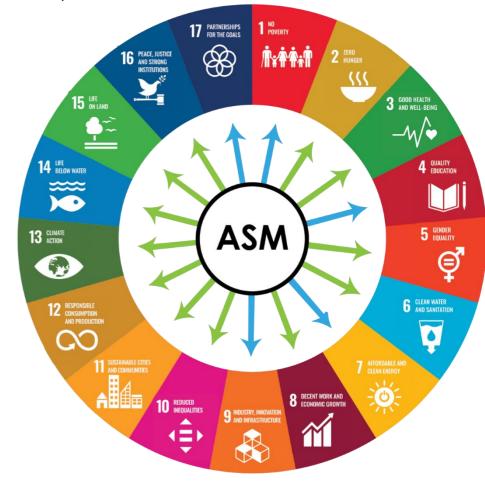
FORMALIZATION PROCESS

'INFORMAL'



ASM formalization needs to be planned and implemented in an inclusive and comprehensive manner with all 17 SDGs in mind.





IMPACTS





POSITIVE & NEGATIVE







Recommendations

National policymakers:

- Develop SDG-sensitive formalization strategies
- ➤ Integrate ASM in national & regional frameworks

Private partners:

- Engage constructively with ASM
- > Use ASM-SDG linkages to inform ASM engagement strategies

Multilateral institutions, donors and civil society:

- > Integrate ASM in regional & global development frameworks
- > Support holistic ASM formalization, incl. education & finance





