



Making a world of difference  
in small-scale gold mining.

A GEF Initiative

April 10, 2025

# Training on Cross- programmatic Indicators

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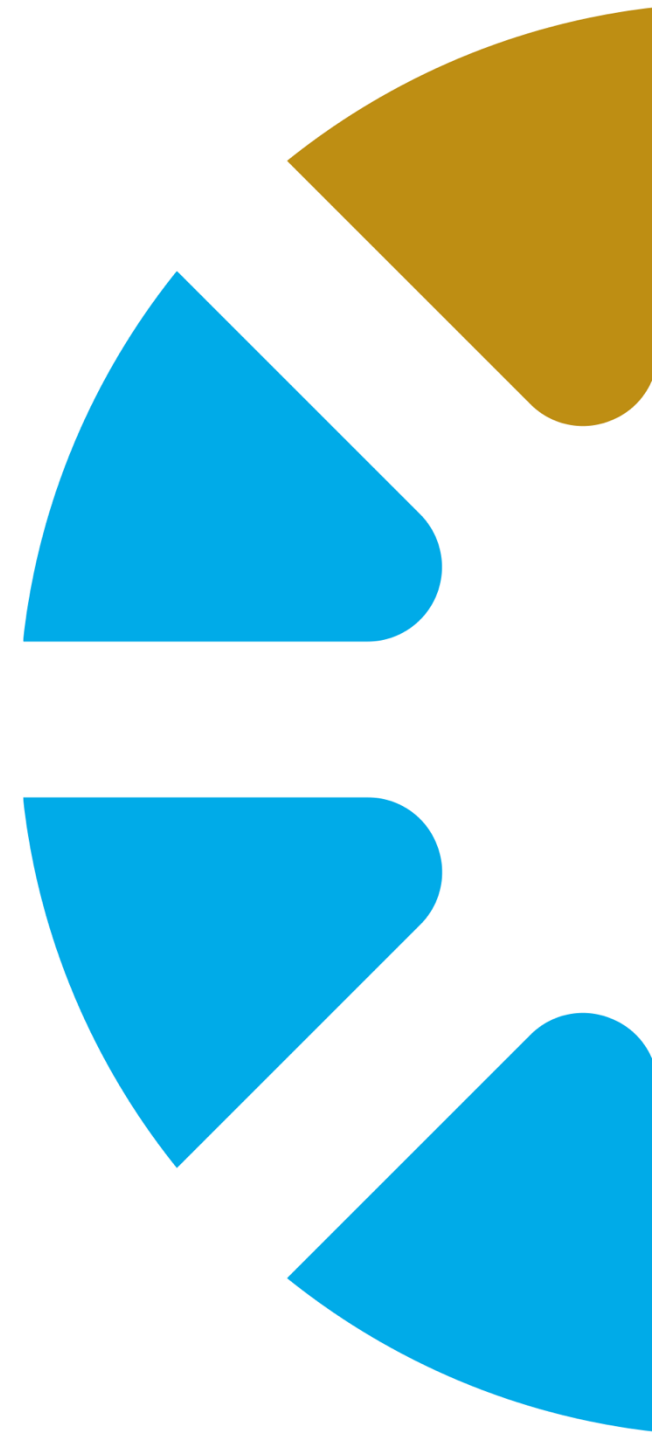


In partnership with:



## Housekeeping:

- ▶ This PowerPoint and recording will be circulated following the session.
- ▶ All relevant materials can be found planetGOLD.org “Home Base” webpage. [www.planetgold.org/home-base](http://www.planetgold.org/home-base)
- ▶ Questions can be written in the chat box and the team will address as we are able.



# Today's Speakers



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# Reporting Requirements

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## Quarterly Online Reporting

Each project submit online quarterly summaries of key activities.

Using these data, the global project produces quarterly summaries of key activities and progress across the programme.

## Annual Progress Report (APR)

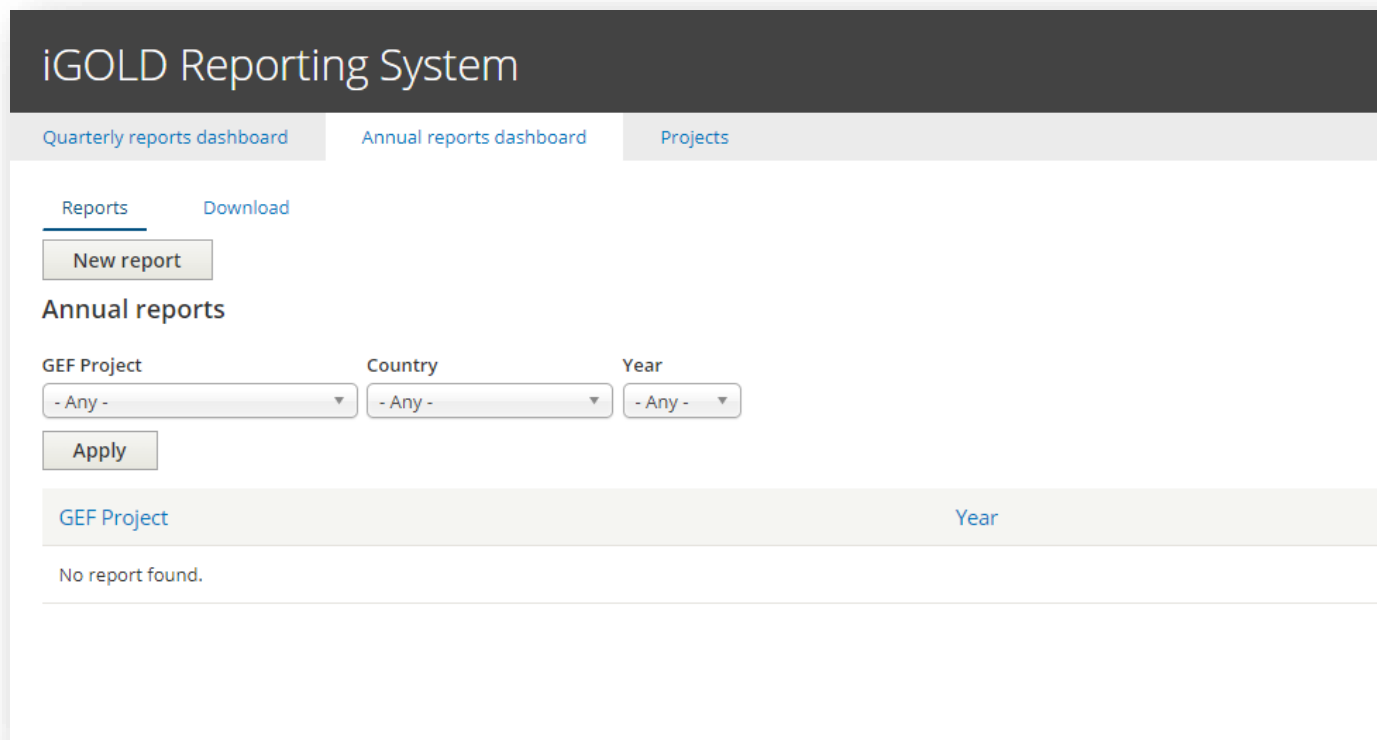
Country projects submit an APR, covering July 1 – June 30 (fiscal year)

Reports should include:

- **narrative** reporting on project achievements
- **quantitative, cumulative** reporting on programme-level indicators aligned with programme pillars

## Integrated **G**lobal **O**nline **D**ata Reporting System (iGOLD)

- ▶ Provide your annual project updates online using same credentials as quarterly reporting
- ▶ Quantitative reporting organized by cross-programmatic indicators
- ▶ Qualitative narrative reporting organized by program pillar
- ▶ Used for annual planetGOLD programme-wide progress report



The screenshot displays the iGOLD Reporting System interface. At the top, there is a dark header with the text "iGOLD Reporting System". Below this, there are three navigation tabs: "Quarterly reports dashboard", "Annual reports dashboard", and "Projects". The "Projects" tab is currently selected. Underneath the tabs, there are two sub-sections: "Reports" and "Download". The "Reports" section contains a "New report" button. Below this, the "Annual reports" section features three dropdown menus for "GEF Project", "Country", and "Year", each with "- Any -" as the selected option. An "Apply" button is positioned below these dropdowns. At the bottom of the interface, there is a table with two columns: "GEF Project" and "Year". The table is currently empty, displaying the message "No report found."

## Mercury Abatement

- Amount Reduced/ Eliminated
- Amount Prevented
- Amount Avoided

## Formalization

- Number of miners/mining operations assisted with formalization processes

## Responsible Gold

- Amount responsible gold produced (according to planetGOLD criteria)
- Amount sold to formal markets

## Access to Finance

- Amount of funds made available/ accessed by miners/mining operations
- Number receiving funds



## **Indicator 1: Mercury Abatement**

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## Mercury use in ASGM



**Hg applied**

**Squeezing:  
Hg recovered**

**Amalgam**

**If retort:  
Hg recovered**

**Gold  
produced**



## Mercury Use



## Estimating Mercury Use with the Mercury:Gold Ratio

Au



$$U_{\text{Hg}} = \frac{\text{Hg}_{\text{lost}}}{\text{Au}_{\text{produced}}}$$

## Hg: Au ratio estimation

When **NO** physical measurements are possible

- 1. Review and analyze previous studies/available data**
    - Minamata National Action Plans inventories
    - Global Mercury Assessment
    - Peer reviewed articles
    - Other projects
  - 2. Cross check the parameters specific for your site:**
    - Type of mining, ore characteristics
    - Type of processing flow
    - Etc.
  - 3. If no previous information available apply theoretical values:**
    - Concentrate amalgamation ~1.3
    - WOA, between 3-5
-

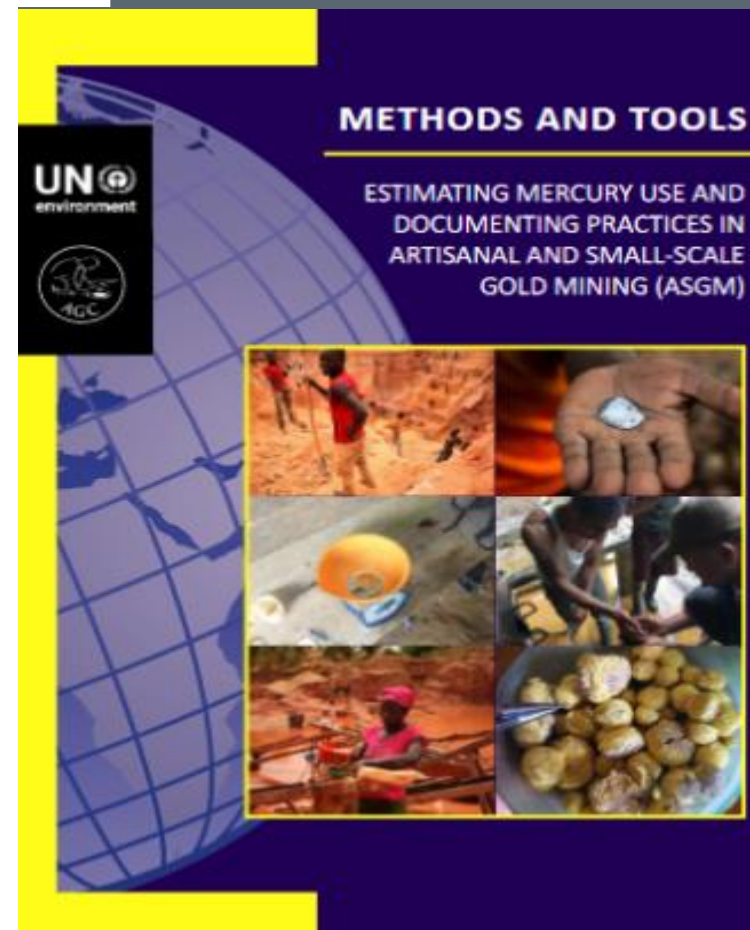
## Gold production estimates

Rough  
estimates

Official Trade Data  
Stakeholder Interviews  
Gold Trader Interviews

Calculation  
based

Extraction based estimates  
Production based estimates  
Earning based estimates




## Mercury Reduced

- ▶ Change in amount mercury lost to the environment as a result of introducing processes that reduce mercury lost per unit of gold production
- ▶ *Examples: converting from whole ore to concentrate amalgamation; introduction of retorts*



## Mercury Reduced: calculation

$$Hg_{reduced} = (Au_0 * U_{Hg0}) - (Au_1 * U_{Hg1})$$


Amount of gold produced/yr **prior** to intervention

Hg:Au ratio before the project's intervention

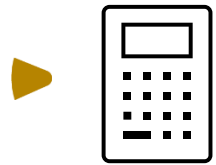
Amount of gold produced/yr **after** intervention

Hg:Au ratio after the project's intervention



## Mercury Eliminated

- ▶ Change in amount mercury lost to the environment as result of introducing mercury-free gold production processes to replace existing mercury-based processes



▶ *Calculation:  $Hg_{eliminated} = U_{Hg0} * Au_0$*

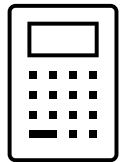
## Mercury Eliminated

- ▶ *Example: installation of a new mercury-free process that replaces existing Hg-based process*



## Mercury Prevented

- ▶ Change in amount of mercury loss ***assumed to*** be prevented by the introduction or ongoing support of mercury-free methods



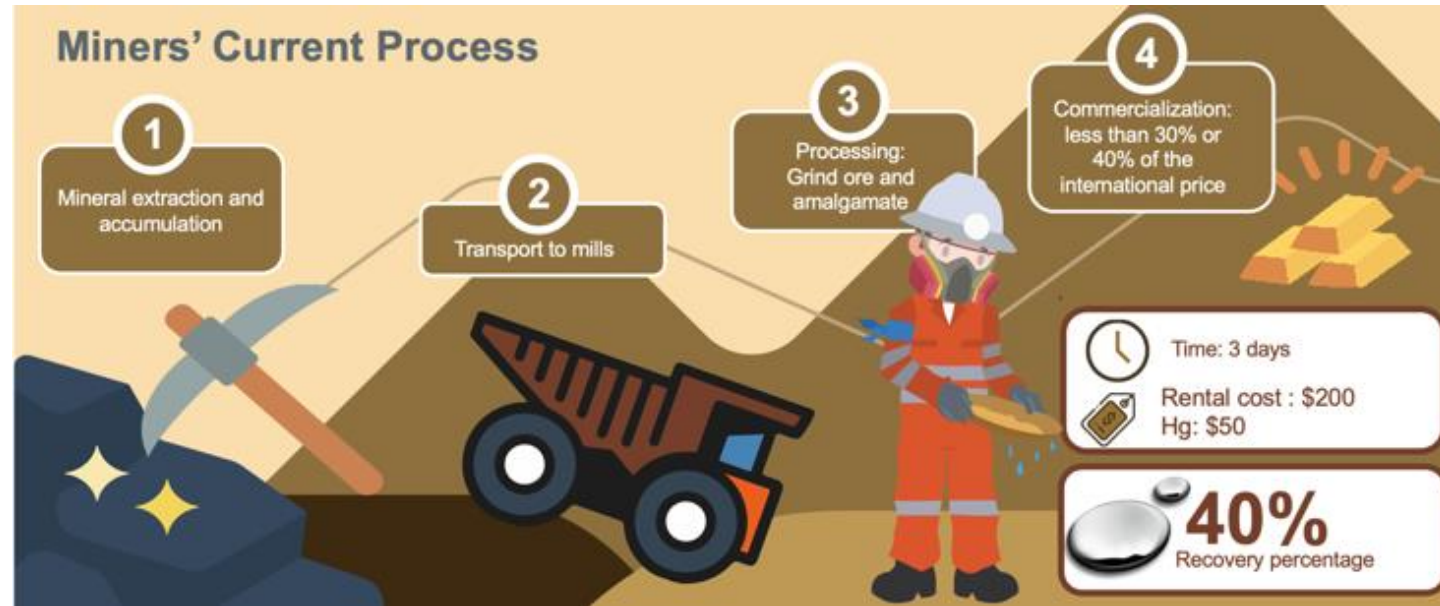
- ▶ *Calculation:  $Hg_{prevented} = U_{Hg0} * Au_1$*

## Mercury Prevented

*Used when:*

- ▶ mercury use is illegal, so only new mercury-free capacity can be introduced;
- ▶ project intervenes with existing mercury-free sites to avoid backsliding



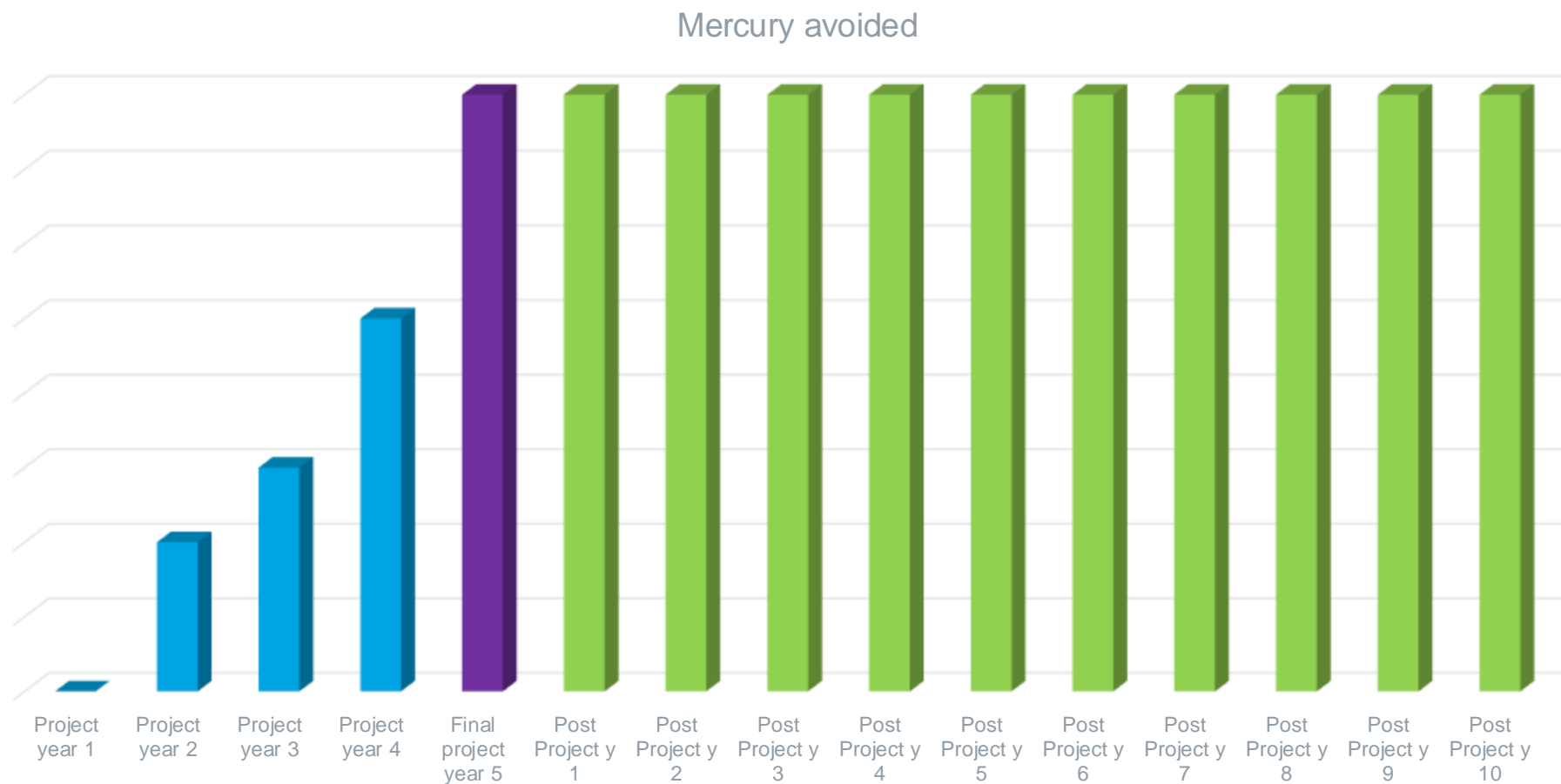


## Example:

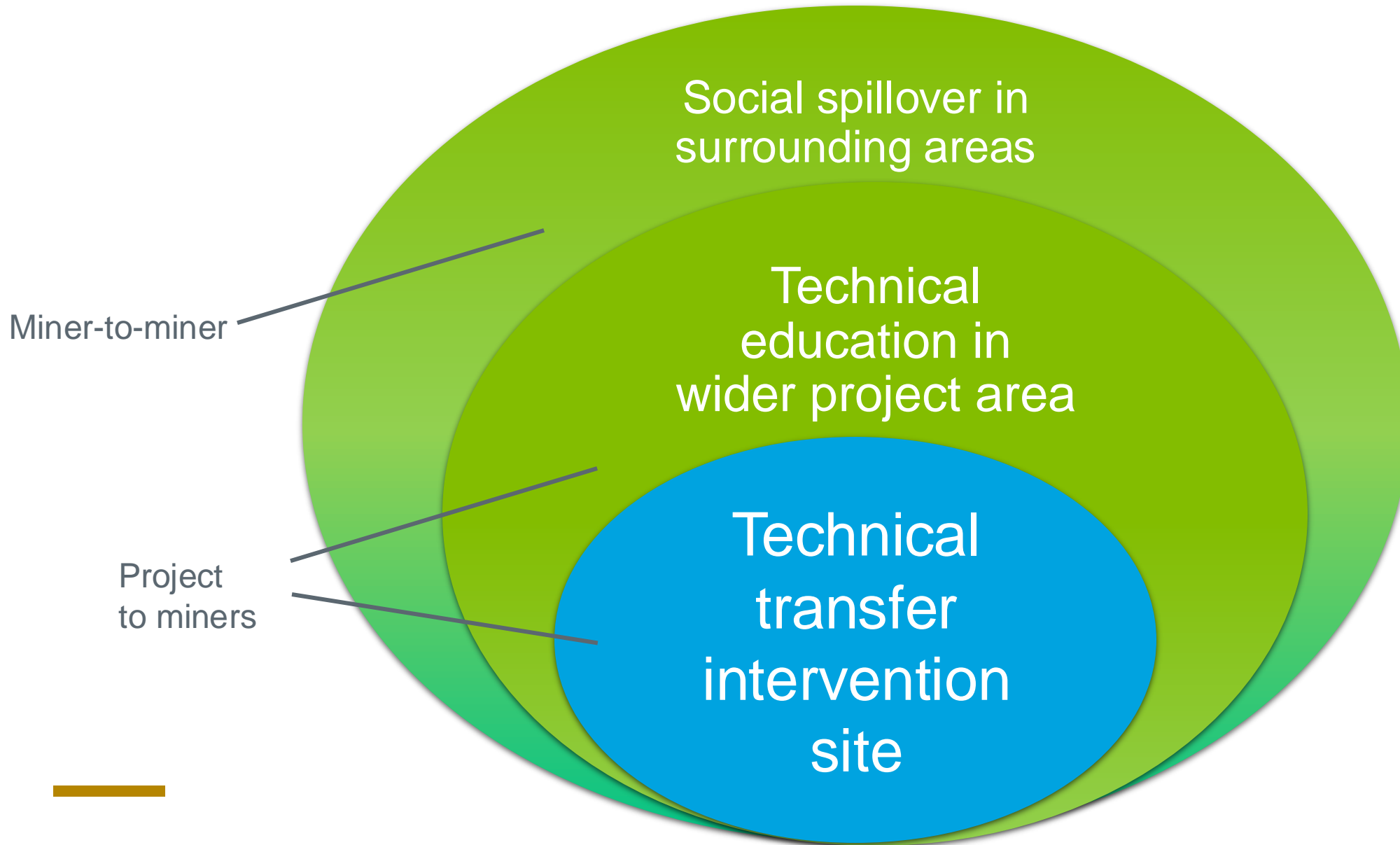
Courtesy: planetGOLD Ecuador



# Mercury Avoided (Future)



# Mercury Abatement Impacts: Direct Tech Transfer and Technical Education



*Q: What kind of technical education is relevant?*

A: Project educational activities **related to the transition to mercury-free technology**

*Q: Does the project have to work in surrounding areas to consider “social spillover”?*

A: No. “Social spillover” means new technologies are adopted through informal miner-to-miner learning, imitation and replication across geographies **without any direct project engagement**

*Q: How can I estimate the mercury abatement where there is no direct technology transfer?*

A: Data/survey are needed to estimate **percentage of mining/processing operations that have adopted lower mercury or mercury-free gold production methods due to project educational activities or social spillover [=“uptake factor”]**

► **“Uptake” assumes:**

- Miners/operations have taken up similar methods with similar results to those achieved at the technical intervention sites – **otherwise uptake factor needs adjusting.**
- Units of analysis (miners or mining operation) must match.



**Questions?**



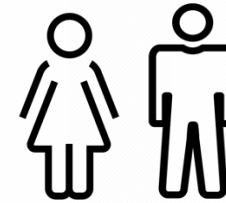
## **Indicator 2: Formalization**

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## Number of Beneficiaries from Direct Technical Assistance



**Number of ALL** miners receiving assistance



**Gender-disaggregated** numbers

**Number of ALL** mining operations supported

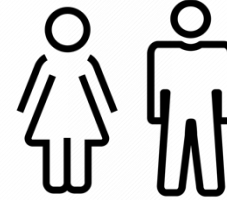
### ► **What kind of assistance?**

- mentoring, coaching
- legal support to mining operations

## Number of Beneficiaries from Educational Activities



**Total number of miners** who have participated in training and awareness raising activities about formalization



**Gender-disaggregated numbers**

**Total number of mining operations** that have participated in training and awareness raising activities about formalization

### ► What kind of assistance?

- awareness raising initiatives
- trainings
- creation of systems or tools meant to benefit miners who wish to become formalized



## **Indicator 3: Responsible Gold Produced/ Sold**

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## The planet**GOLD** Criteria



**Govern the operations of ASGM entities engaged with the planet**GOLD** Programme**

**Require operations to make efforts to avoid, minimize, mitigate, and offset adverse impacts to people and environment**

**Help operations attract financing and access to formal markets**

**Based on CRAFT code; additional criteria to comply with Minamata Convention and GEF Environment and Social Safeguards**

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# CRAFT Modules

## Module 1 and Module 2

1. Adopt a management system
2. Legitimacy of the mining entity must be verified

## Module 3: Must disengage immediately

- Direct or indirect support of worst forms or forced **child labor**;
- Involvement or links to in any forms of **torture** or cruel, inhuman, and degrading treatment;
- Involvement or links to gross **human rights violations and abuses**, such as widespread sexual violence, and war crimes.

## Module 4: Disengage if problems not addressed

- Direct or indirect support to entities that **illegally control** any stage of mining operation;
- Engagement with **entities responsible for gross human rights abuses**;
- **Misrepresentation of payments** to government and security forces.



## In addition to Modules 1- 4 of the CRAFT Code: **Three planetGOLD-specific Criteria**

### Eliminate mercury in the mining process



And appropriately manage mercury contaminated tailings.

### Respect and protect the rights of Indigenous Communities



These are requirements of the GEF environment and social safeguards.

### Minimize impact on biodiversity



With a special emphasis on protecting biodiversity and critical habitats.

## Amount of responsible gold produced



Amount of responsible gold produced (kg) from planetGOLD participating operations

- ▶ AT A MINIMUM operations must conform with minimum planetGOLD criteria for engagement with buyers:



no “Module 3” human rights risks, with mitigation plan for any Module 4 risks



Mercury-free

- ▶ Guidance on the planetGOLD criteria as well as report template forms are found here: <https://www.planetgold.org/criteria>

- ▶ *More on planetGOLD criteria in upcoming monthly training series*



## Amount of responsible gold sold



- ▶ Amount of responsible gold (kg) **produced**
- ▶ Amount of responsible gold (kg) **sold** via formal supply chain mechanism

- ▶ Applies where:

- Formal supply chain mechanism has been developed/ supported by the project
- Gold sales from planetGOLD participating operations can be traced from mine to a formal market/buyer





## **Indicator 4: Access to Finance**

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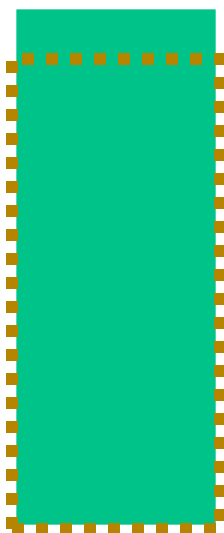
## Amount of money made available through new mechanisms



- ▶ **Number of new financial products/mechanisms** developed/supported



- ▶ **Amount of money available** for miners/ASGM operations via new mechanisms



- ▶ **Amount of money accessed** by miners/ASGM operations via those mechanisms



- ▶ **The number of miners/mining operations** receiving finance from mechanism (gender, IP disaggregated)

- **Use of proceeds should be noted** – was money for mercury-free equipment or other use?
- **Disaggregated by gender** and noting if recipients were **indigenous people**

## Amount of money made available through educational activities



- ▶ **Amount of money accessed** by miners/ASGM operations **via trainings** from existing financial mechanisms



- ▶ The **number of miners/ASGM operations** receiving finance
- ▶ **Average amount of finance received per miner/ASGM operation.**

- ▶ **Disaggregated by gender** and noting if recipients were **indigenous people**



**Questions?**



QUIZ

Go to  
[www.menti.com](https://www.menti.com)  
Enter the code  
**9585 5273**




## Scenario 1 - Mercury Abatement

In addition to its direct interventions, a planetGOLD country project also engaged in technology demonstrations, trainings, and other educational activities for other mining groups in the area.

Because of the education conducted by the project, two local groups were inspired to set up **two** new mercury-free plants in other parts of the region. As a result, **10 kg gold are produced by EACH plant without the use of mercury every year**. Typically, a WOA operation in the region that produces 10 kg of gold would consume **50 kg of mercury**.

## How would you report the mercury abatement?

- a) 50 kg of mercury reduced
- b) 100 kg of mercury prevented 
- c) 100 kg of mercury eliminated
- d) 50 kg of mercury avoided


Why?

- 2 plants, 50 kg prevented at each plant = 100 kg
- “Prevented” because these are new plants and thus new capacity



## Scenario 2 - Formalization

Which of the below is NOT a type of **educational** assistance provided to miners related to formalization:

- a) awareness raising initiatives
- b) trainings
- c) direct legal support to mining operations 
- d) creation of an online government registration system for use by miners, to facilitate the formalization process



## Scenario 3 – Responsible Gold

It is estimated that **2 tons of gold** are produced per year by operations assisted by a planetGOLD country project. All of the gold is produced without the use of mercury. However, only 75% comes from plants that conform with the planetGOLD Criteria for Environmentally and Socially Responsible Operations.



## How would you report the amount of responsible gold produced?

- a) 0.5 tons responsible ASGM gold produced
- b) 2 tons responsible ASGM gold produced
- c) No responsible ASGM gold produced
- d) 1.5 ton responsible ASGM gold produced






## Scenario 4 – Access to Finance

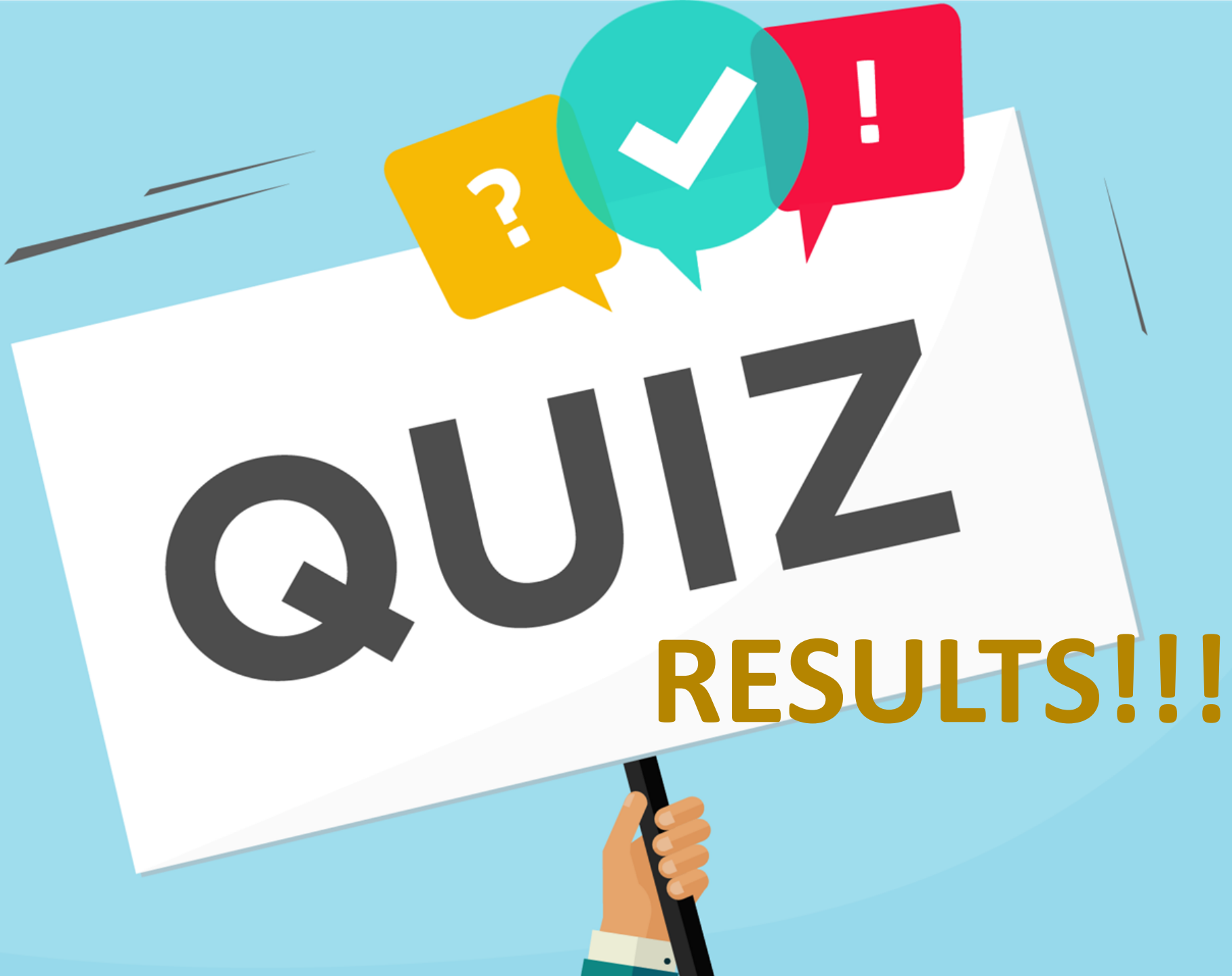
A planetGOLD country project uncovered existence of a **special government-backed fund for women-owned small and medium size enterprises**.

The project delivered a series of **business/financial training classes for women miners in the project intervention area**, which showed the participants the kind of business records and information required to meet the fund's qualification requirements.

The project also helped the miners to fill out the loan applications. As a result, **100 miners in the project intervention area** were able to access loans.

## How would you report the access to finance outcomes?

- a) 100 miners received finance through a new mechanism.
- b) 100 women received finance through educational activities. 
- c) 100 women received finance through a new mechanism.
- d) 200 women received finance through educational activities.



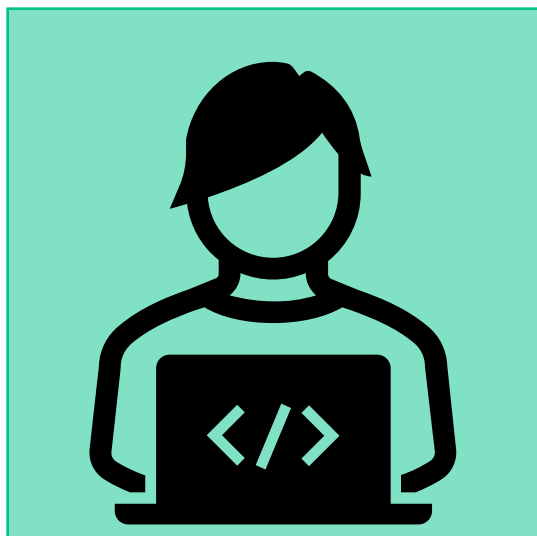
QUIZ

RESULTS!!!



# What's Next in Monthly Trainings

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➤ Adding web content to the planetGOLD website and iGOLD-online quarterly reporting (March)

➤ Calculation of programme indicators and documentation (April)

➤ **Introduction to the planetGOLD Criteria (May)**

➤ **Deep-dive webinar series on Jurisdictional Approaches (beginning in June)**

➤ **Deep dive into communications (via one-on-one training)**



# Thank you

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