

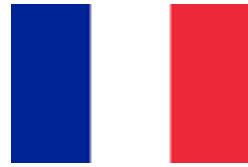


Presentation to the MASG:
Study on Operational Efficiency in Mine Action

Disclaimer

“KPIs should be interpreted strictly in context. Taken in isolation they can give rise to misleading or invalid conclusions.”
(TNMA 07.11/02)


Background of the Study



- **Why:** At the request of the Chair of the MASG, Ambassador Yves Marek, funded by the Government of France.
- **Study objective:** identify and analyse how the performance of land release operations is measured with regards to efficiency and to provide MA stakeholders with examples of key performance indicators (KPIs) in different contexts.
- **Areas of focus:** the efficiency of land release operations.

Efficiency or Effectiveness?

Efficiency



A measure of how economically resources/**inputs** (funds, expertise, time, etc.) are converted to results (**outputs** and outcomes).

“Doing the **things right**”

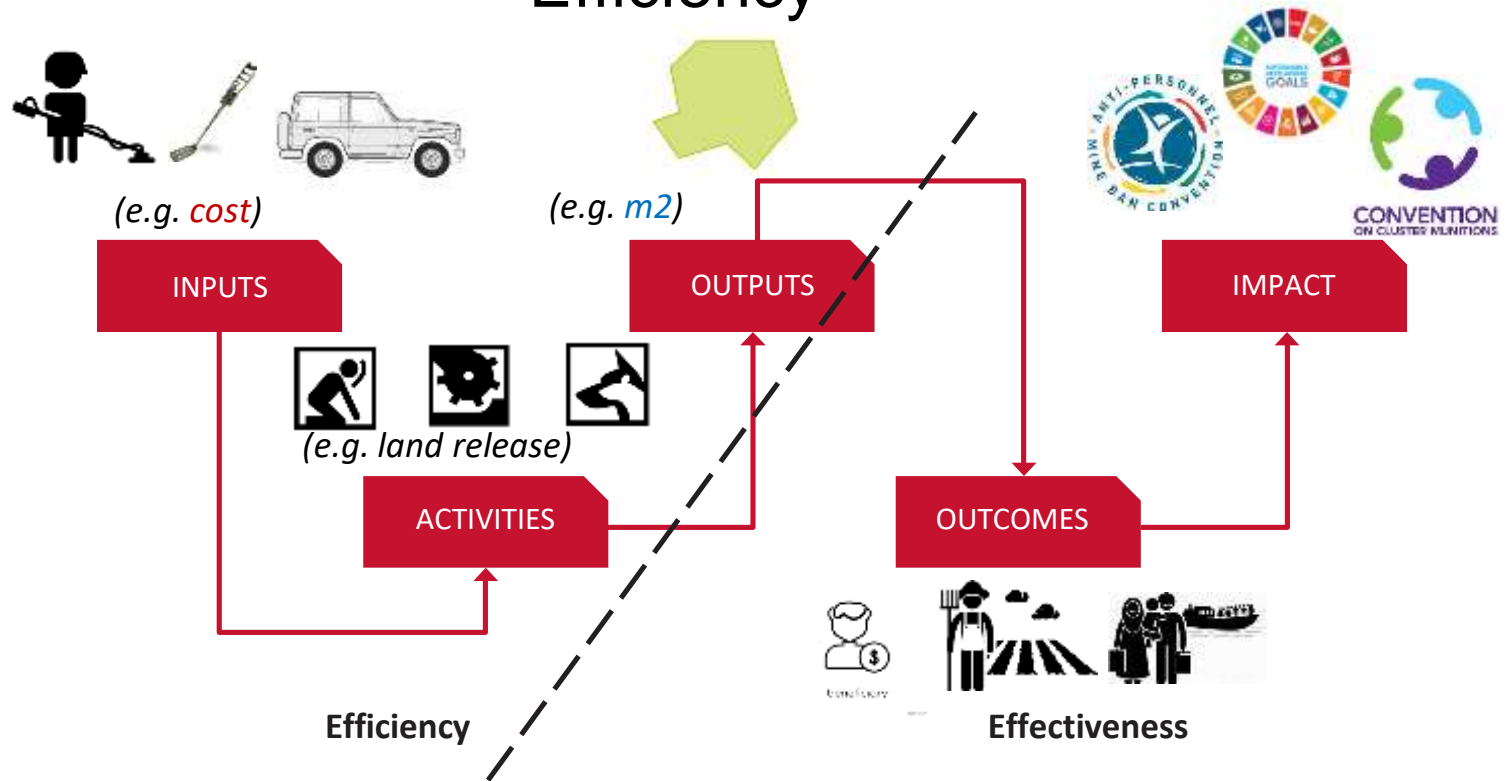
Effectiveness

The extent to which the interventions **objectives were achieved**, or are expected to be achieved, taking into account their relative importance.



“Doing the **right thing**”

Efficiency

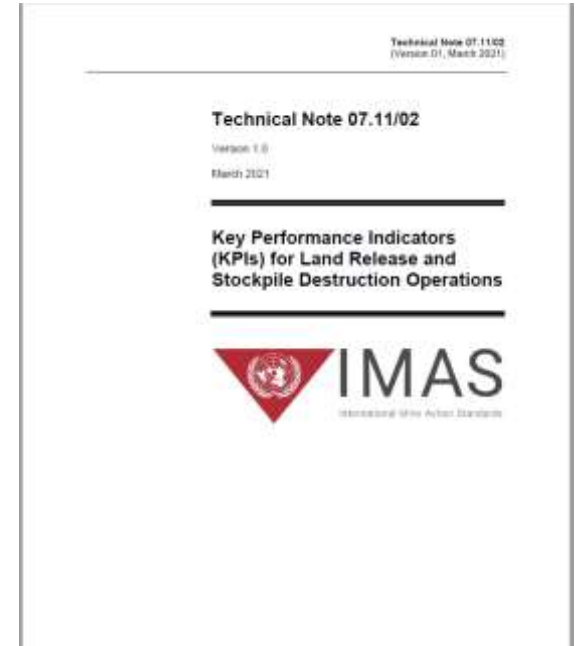
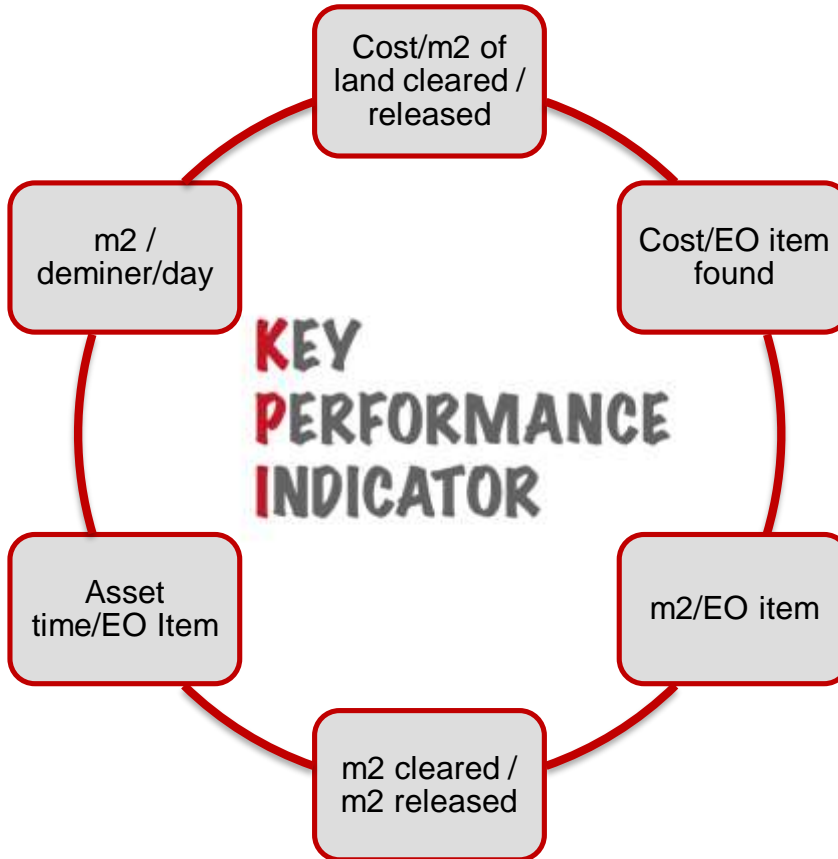


$$\text{Efficiency} = \text{Input} / \text{Output} \text{ (e.g. } \textit{cost} / \textit{m2} \text{)}.$$

Scope and Methodology

- Comparative analysis between different geographical regions; visits to a few case study countries.
- Focus on **country-level data** from primary sources (NMAA, MAOs, donors) and secondary sources (Landmine & Cluster Munition Monitor, Mine Action Review); site-level data also collected from MAOs.
- Aim to triangulate data from diverse sources in order to validate figures.
- Limited to **2015-2019** period (use recent data while eliminating COVID-19 related impacts).
- Selection of **6 KPIs** to measure efficiency (input/output) for quantitative analysis of the land release

Key Performance Indicators (KPIs)



Study Phases

- ✓ **Data provided by MAOs:** covering operations at 8,622 tasks in 32 programmes in 21 different countries
- ✓ **Data from NMAAs:** 13 datasets sent by countries, in addition to open-source data from the Mine Action Review
- ✓ **Data from Donors:** information was provided by three donors

Phase 1

Desk Review
March 2022

- Open-source, secondary data (Landmine & Cluster Munition Monitor, Mine Action Review, etc.)
- 15 countries analysed

Phase 2

Data Request to Stakeholders
April-June 2022

- 20+ face-to-face and online discussions with NMAAs, MAOs and donors
- Overview of study and types of data sought

Phase 3

Data Collection
May-August 2022

- Standardised data collection forms shared with 28 MAOs, 4 commercial orgs., 41 NMAAs, 4 IOs and 11 donors
- 2 case study visits: Cambodia and Lebanon

Phase 4

Data Verification
September 2022

- Verification of data received and requests for clarification (inconsistencies, missing data) & additional data
- Initial analysis of findings

Phase 5

Final Report
October-December 2022

- Analysis of final datasets
- Preparation of report
- Sharing of draft with stakeholders for inputs
- Finalization of report



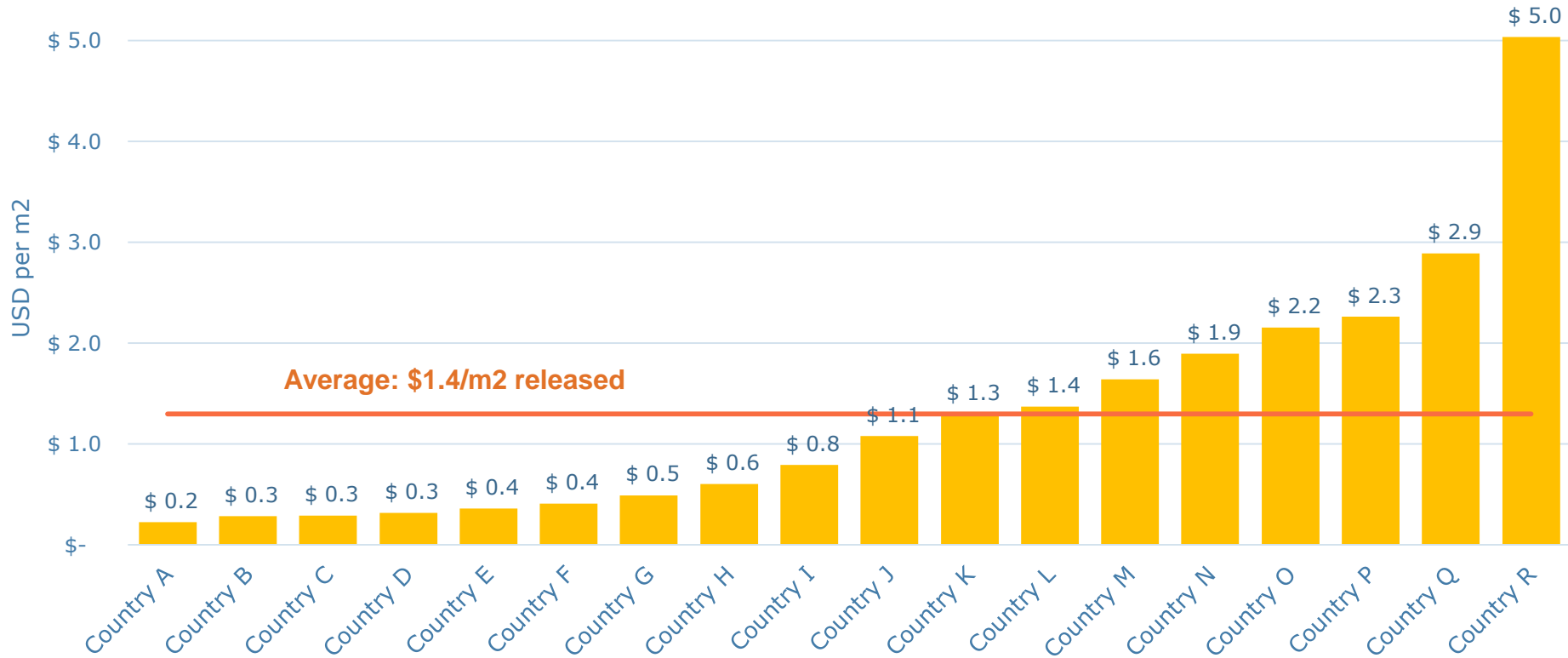
Challenges

- **General difficulty obtaining data** – sometimes completely unavailable or long administrative hurdles to overcome in order to share data
- **Incomplete datasets** – datasets received were often missing key information and did not always respect Minimum Data Requirements (IMAS 05.10, Annex B), which prevents their use for calculating all 6 KPIs
- **Inconsistency with calculations** – different approaches to counting within datasets (ex.] calculation of deminer days) which hinders ‘like-for-like’ KPIs
- **Divergent figures** – country totals varied when triangulating data (when possible) between different sources

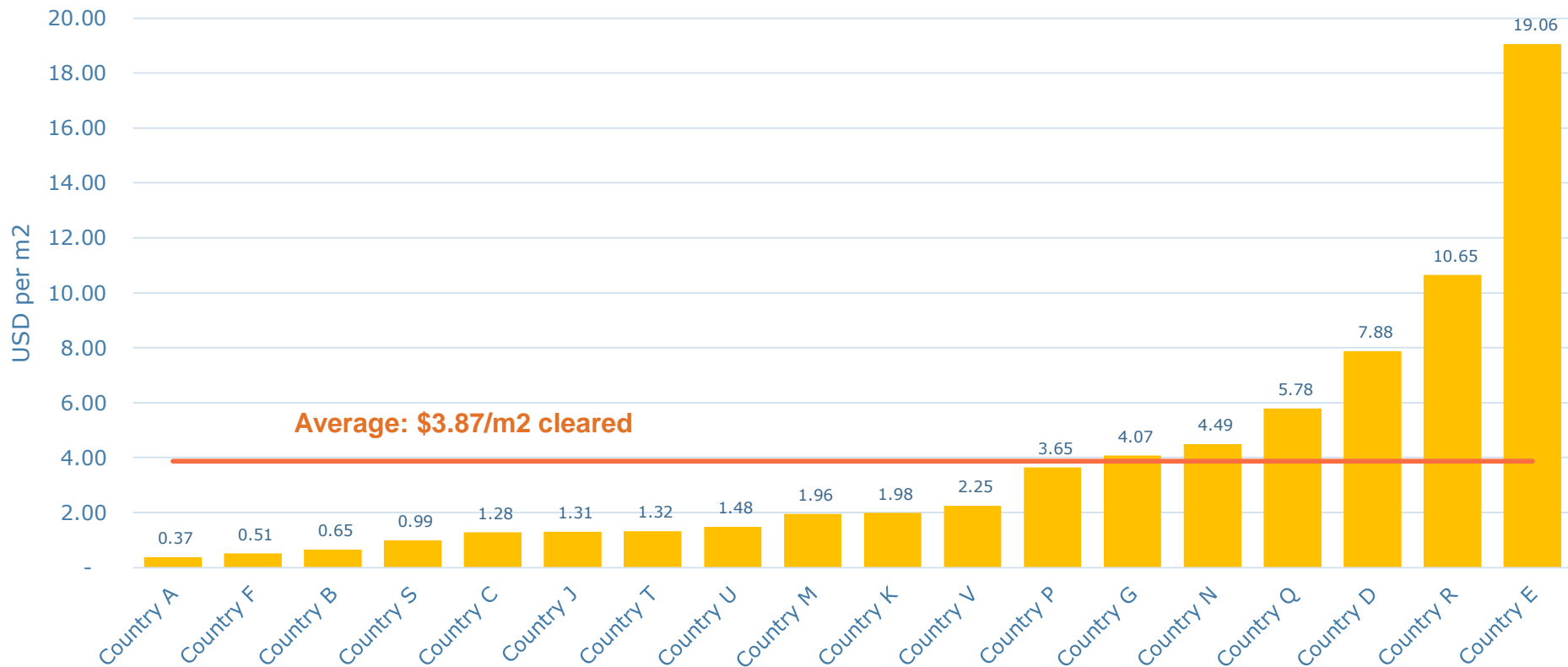
Findings

KPI 1: Cost per m² of land released or cleared

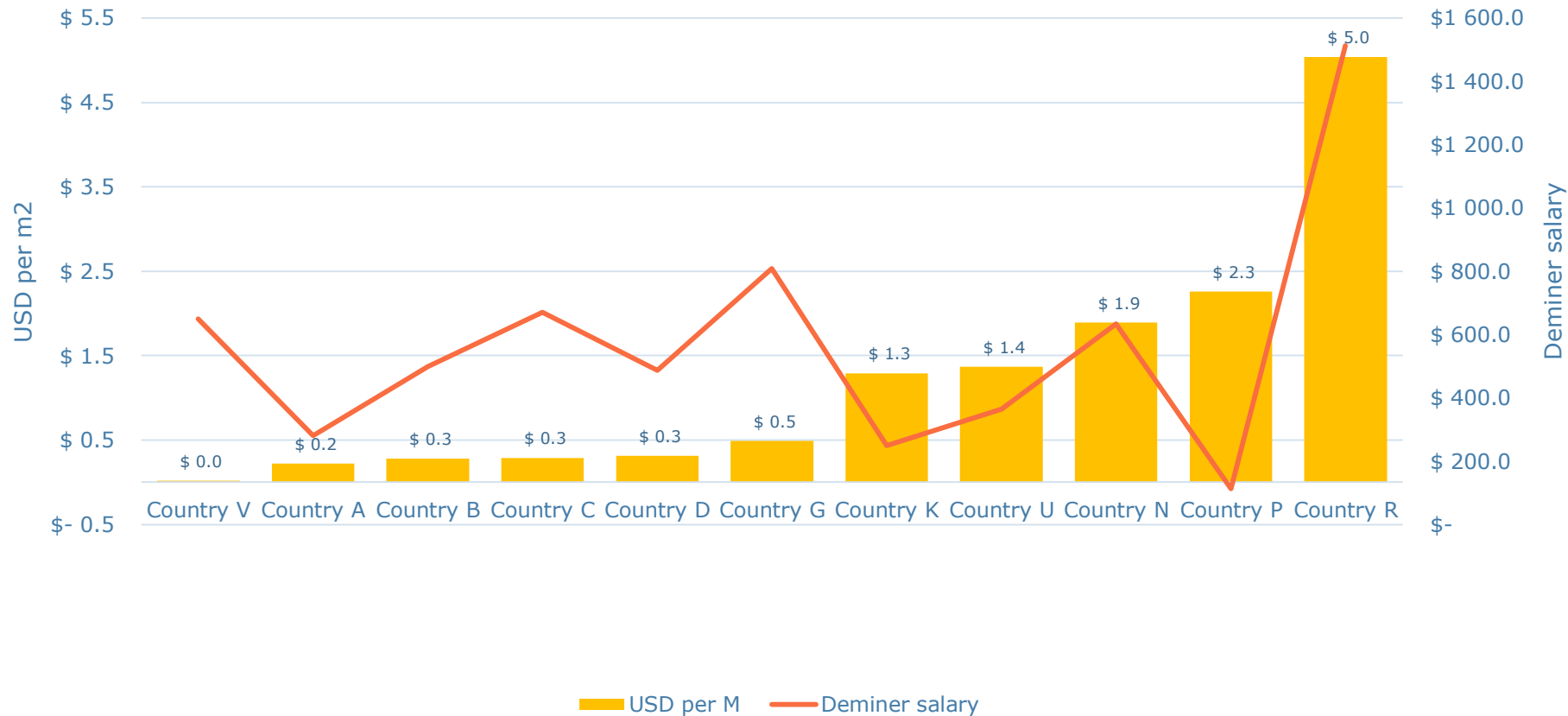
Average cost (\$) per m2 released, 2015-2019



Average cost (\$) per m2 cleared, 2015-2019

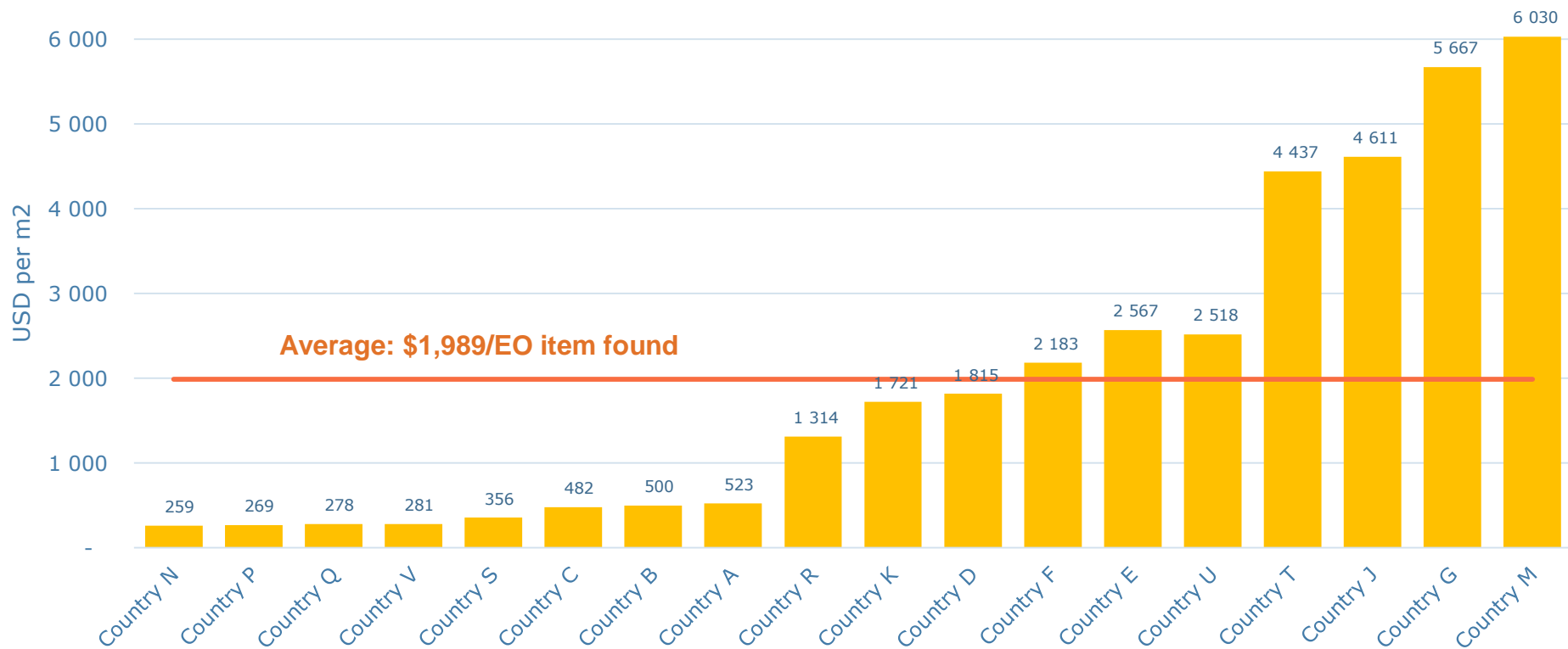


Average cost (\$) per m2 released, vs deminer salary 2015-2019



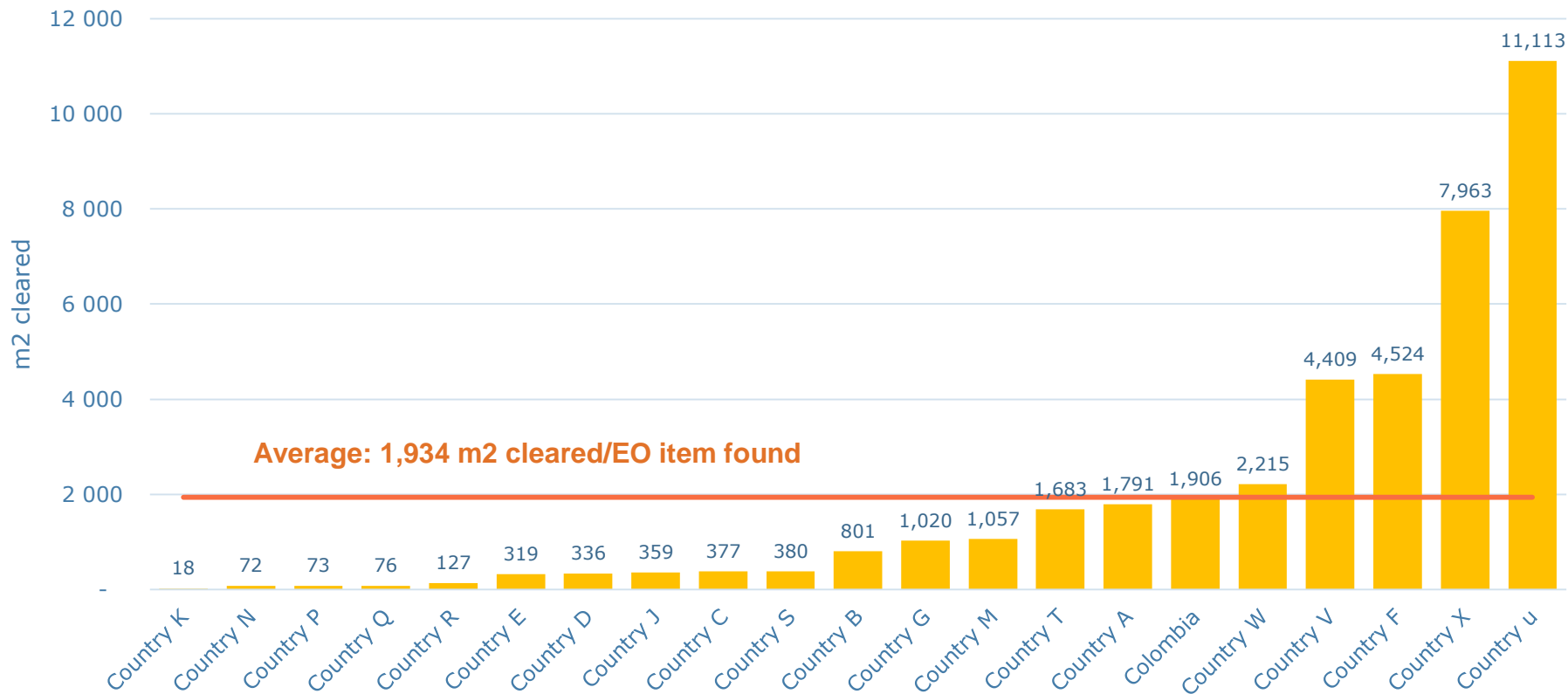
KPI 2: Cost per EO found

Average cost (\$) per EO found, 2015-2019

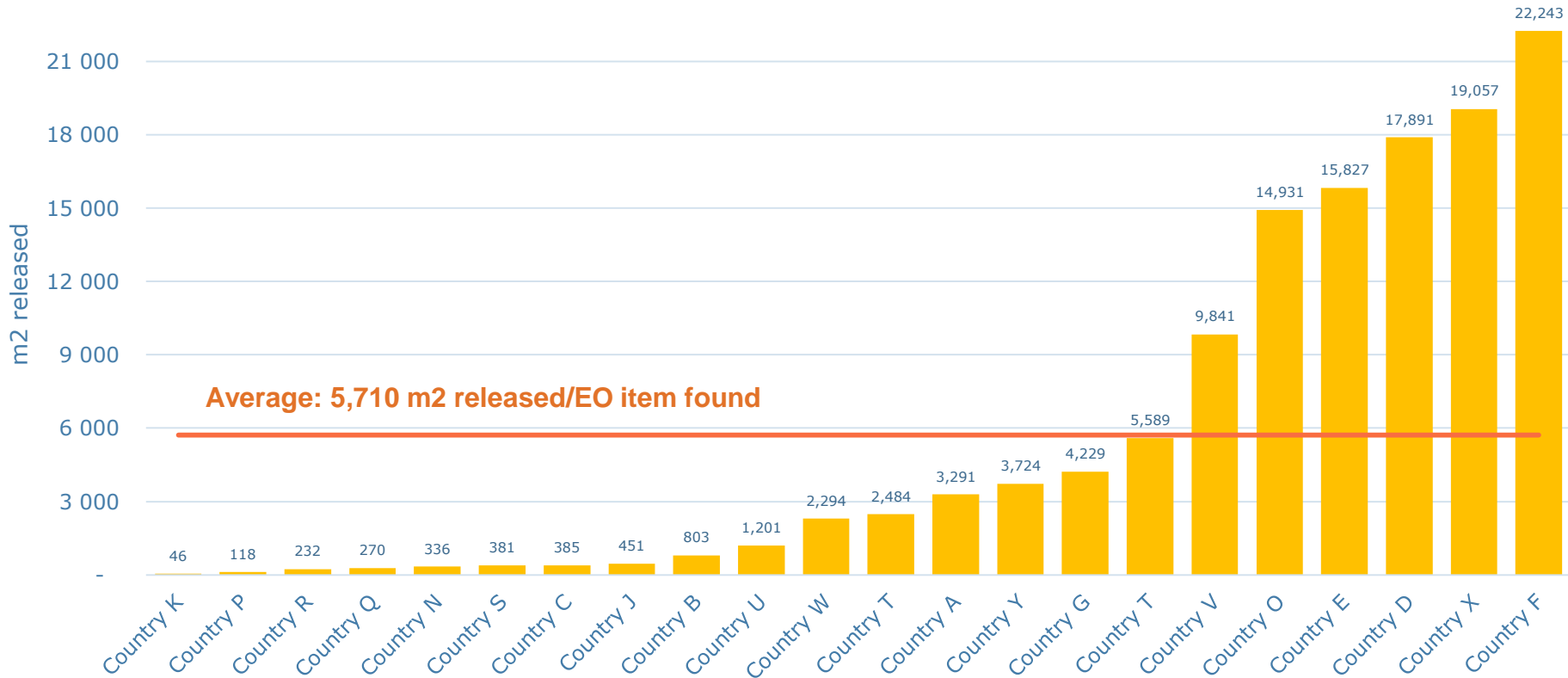


KPI 3: Land cleared per EO item

Average m2 cleared per EO item found, 2015-2019

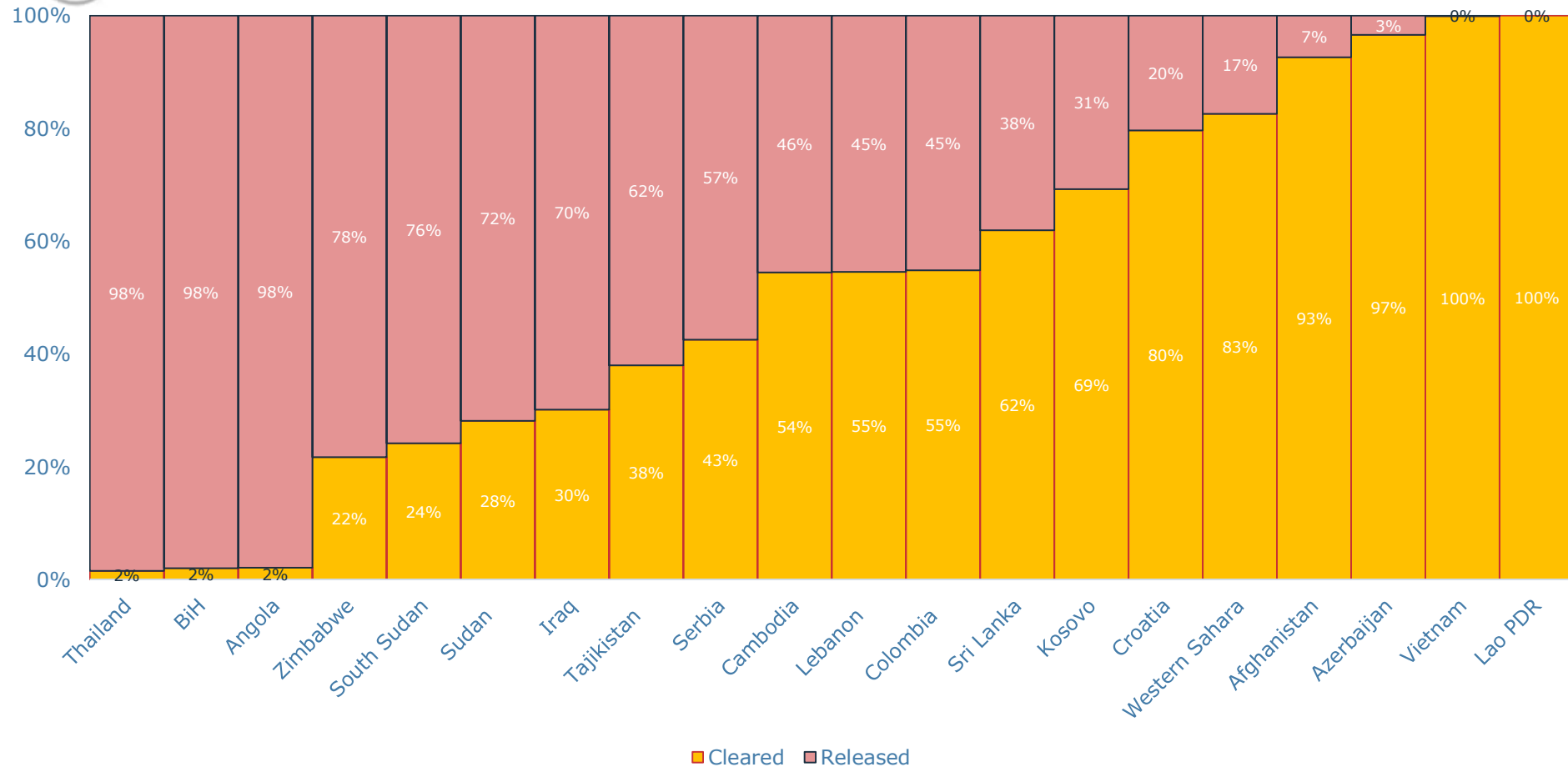


Average m2 released per EO item found, 2015-2019

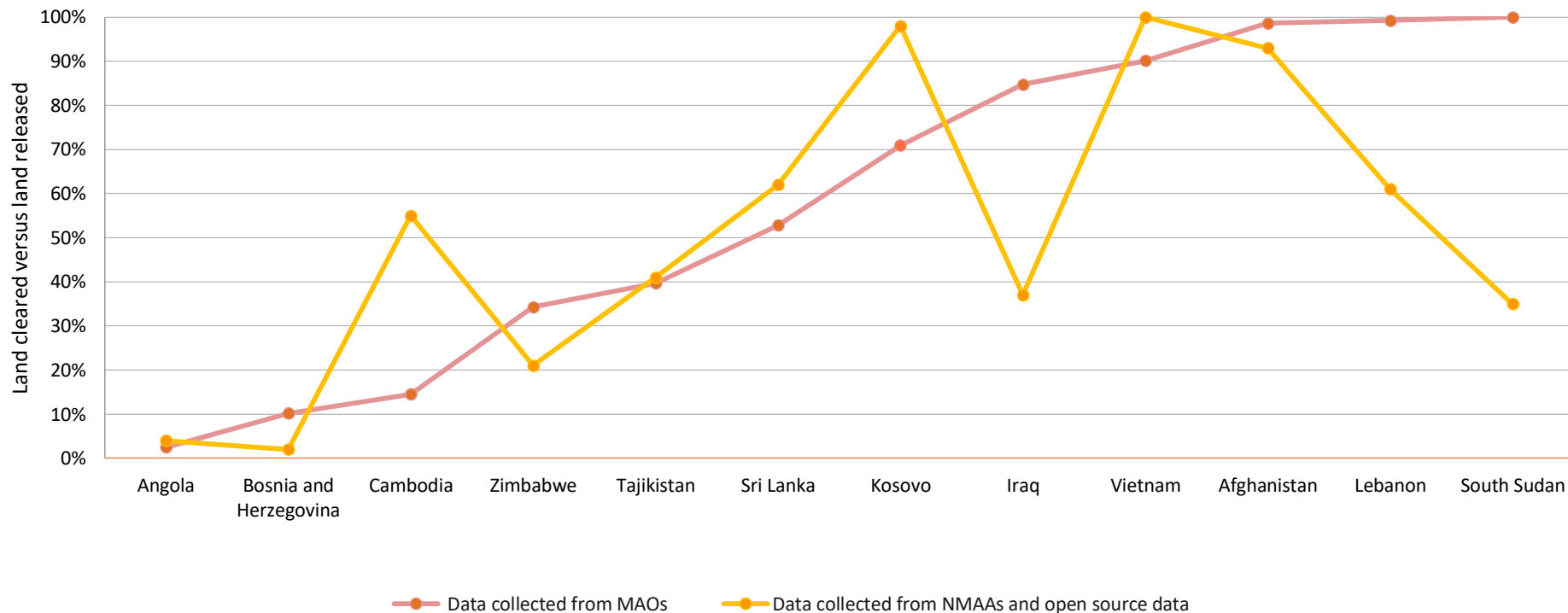


KPI 4: Cleared vs Released ratio

Cleared vs Released areas (m2) cleared, 2015-2019



Data source challenges - Percentage of land cleared versus land released

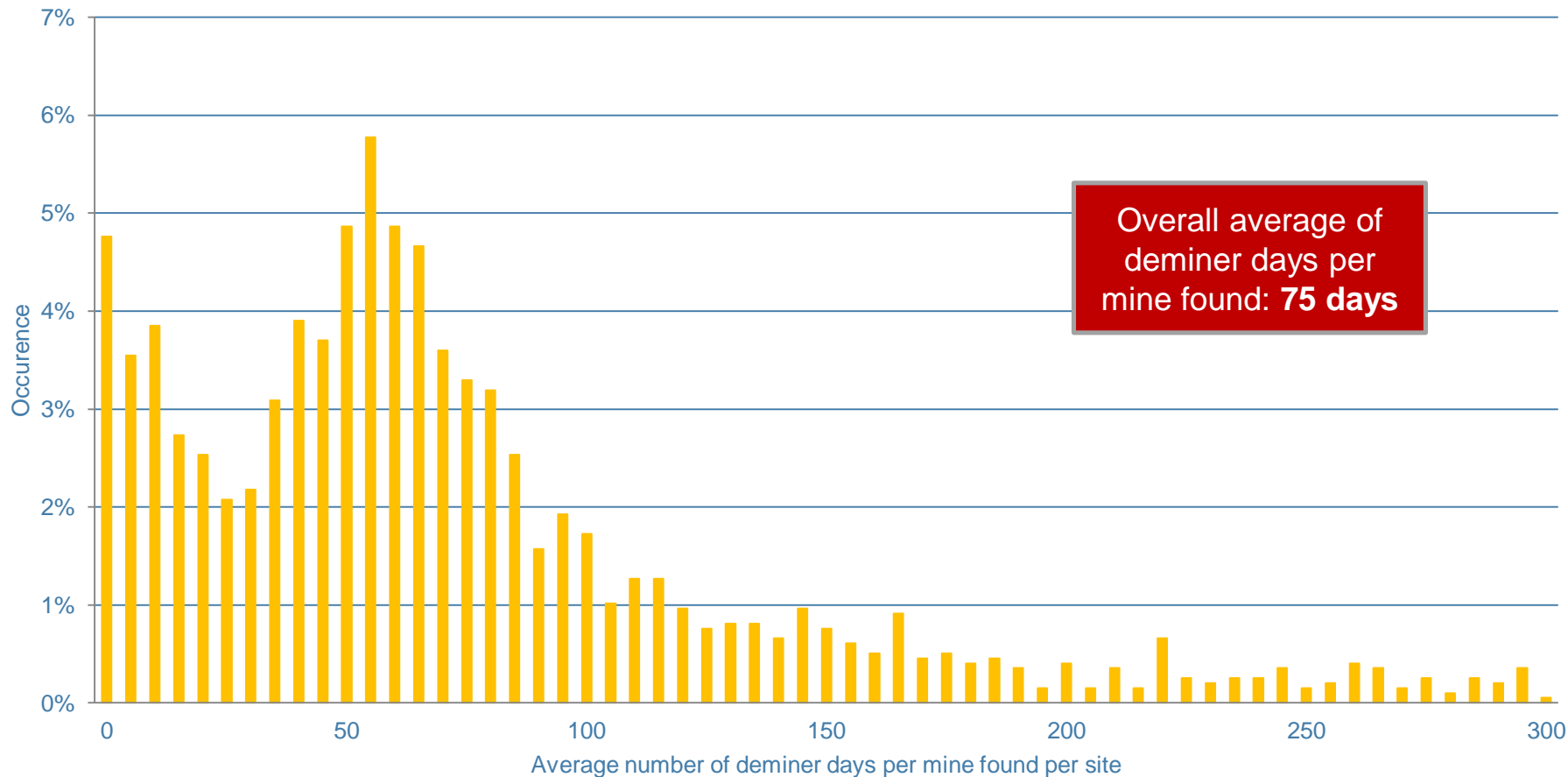


KPI 5: Asset time / EO item



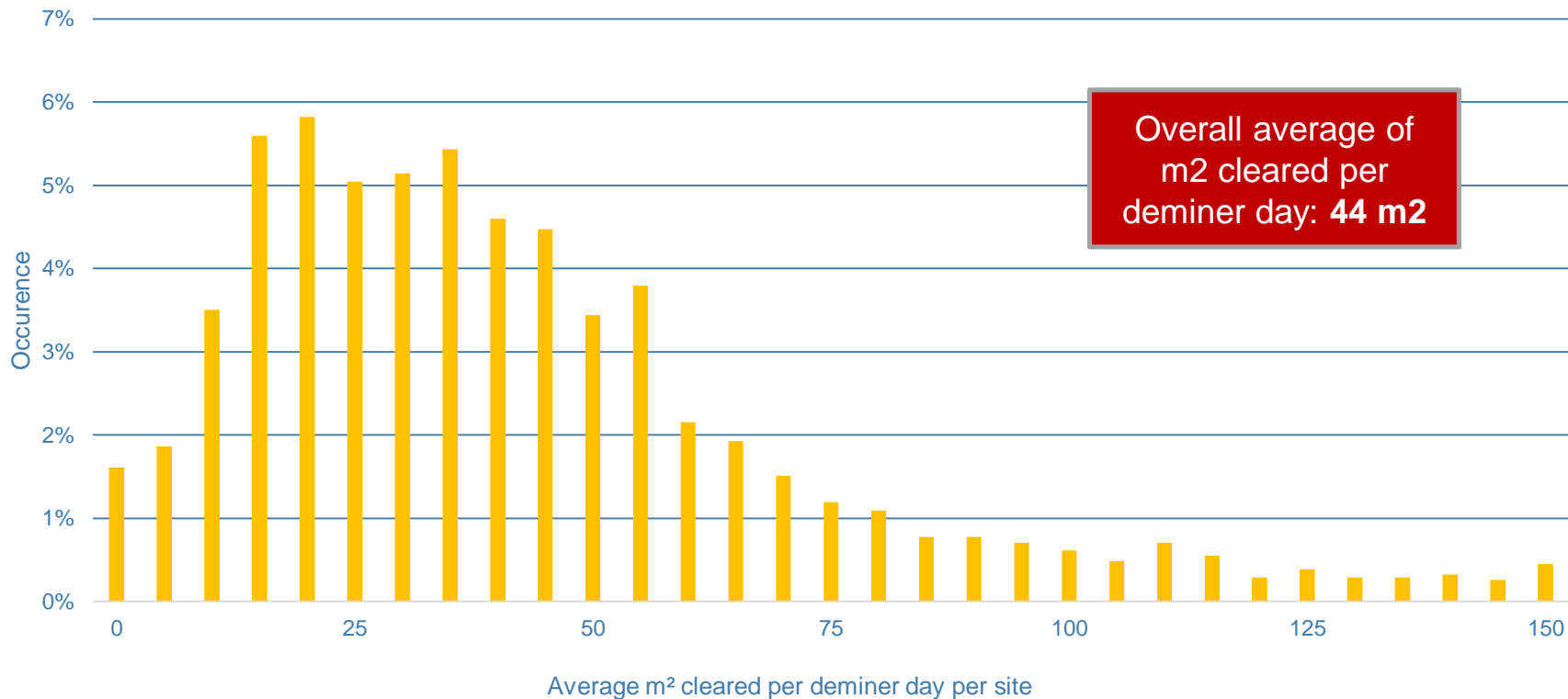
GICHD

Distribution of the average deminer days per mine found per site



KPI 6: m^2 / deminer / day

Distribution of the average m² cleared per deminer day per site



Next Steps

- Finalisation of analysis and full report draft: **31 October 2022**
- Dissemination of draft report to stakeholders who shared data for review/inputs: **November 2022**
- Incorporation of inputs from stakeholders and finalisation of report: **December 2022**



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