

# AI Assistant for Mobile Inspection Rounds

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The FirstStep.ai AI Assistant for Mobile Inspection Rounds assists operators by providing a **second set of eyes** to assist with the **identification**, **collection** and **verification** of observation data collected in the field, improving **efficiency** and **accuracy of collected data**.



## AI Assisted Inspection Rounds

The FirstStep.ai Mobile Inspection Assistant is designed to support the Operators by making **intelligent suggestions** to assist with the collection of data.

Images captured are analyzed by both the Operator and the AI Object Classification models to **reduce the risk of human error** during the collection of data. When the AI and Operator disagree, the AI model is **re-trained using this data** and improved for future inspection rounds.

Inspection rounds workflow steps and remedial actions can **adapt in real-time** based on what the operator is attending to, and the state of the piece of equipment being inspected.

## Mobile Processing, Cloud Storage

The FirstStep.ai Mobile Inspection Assistant analyzes images on **the mobile device in real-time**, so that Operators learn to embrace real-time AI feedback, instead of waiting for data to be processed at a later time.

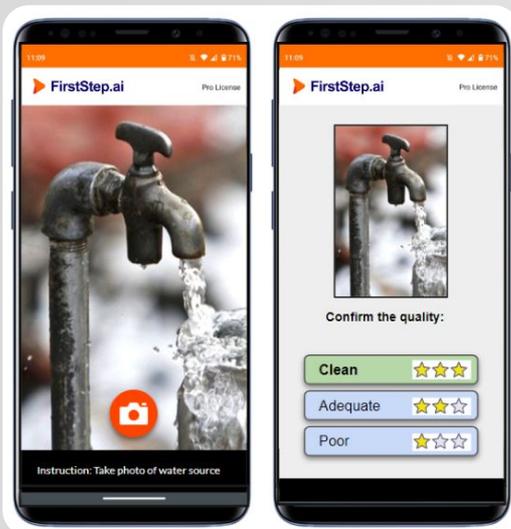
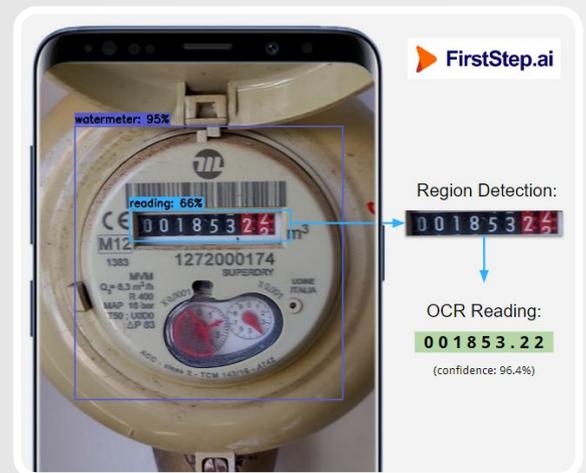
Once inspections rounds are complete, image data along with Operator feedback and AI analysis can be sent to the **cloud** or **locally hosted server** to be stored for **archiving purposes** and to improve future versions of the AI model, **constantly refining and improving** the AI models.



## Technology

FirstStep.ai AI Inspection application makes use of the following technology:

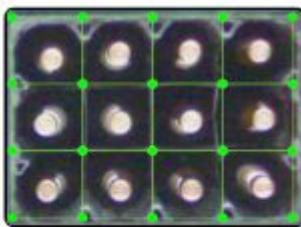
- **Object Detection** - Detecting of equipment (e.g. meters, vehicles or documents) and specific regions of interest within (e.g. readings, license plates, id tags).
- **OCR** - Mobile text extraction allows for real-time conversion of digits and text to avoid human error. The role of the operator evolves from transcribing data, to now verifying that the AI has correctly extract the correct text.
- **Cloud Server** - Our cloud server application receives and stores data collected from each device, providing a historic archive of data collected.



## Client Industries and Use Cases

FirstStep.ai AI Inspection application for mobile and EDGE devices is used by our clients globally, including:

- **Africa** - Real-time product inspection for quality control purposes (industry: manufacturing)
- **Europe, Asia** - Operator field inspections for auditing purposes (industry: agriculture and supply chain)
- **Africa** - Real-time product tracking and identification on-premise and in-vehicle (industry: healthcare logistics)
- **Africa** - Vehicle detection and license plate OCR (industry: security)
- **Africa** - Water meter readings (industry: commercial property)



Product identification, tracking and counting



Package tracking and QR and barcode identification



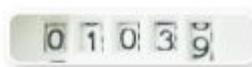
Meters, tags, and license plate detection and OCR



Digital meter reading (Heat)



Digital meter reading (Electric)



Analog meter reading (Heat)



Analog meter reading (Electric)