

# AI readiness – photo standards to support equipment repair estimates



*Presenter: Martin Schoeler, CEO FLETEC*

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# Future readiness of our industry

- Photos will be essential for M&R process support and automation
- Our industry has been passive and has not seen the value of photos yet in connection with new technologies.
- Other industries with similar challenges have standardized processes and provided system support to create photos in the required quality.

# Future readiness - possible targets

- Photos need to be considered helpful for the depots (providing service) and for the container operators (controlling the service)
- Photos need to be of sufficient quality so that humans can make decisions
- Photos need to be of sufficient quality to train algorithms
- Photos need to be connectable to repair estimate line items

# Possible Work Group activities?

- Minimum photo set for different damage situations
- Guided photo requirements (“take this angle, then this angle” , etc)
- Photo labelling/tagging, use of meta data
- Quality checklist (resolution, lighting, focus, etc) usable by:
  - frontline staff
  - system validations
- Standardize photo-to-estimate linkage
- Training material

# Examples



## Problems

- Location unclear, important when estimate contains multiple line items with same repairs
- Damage unclear, is deformation outside allowable tolerances?

## Improvement

- Add line-item details to photo meta data
- Show damage from different perspectives
- Add measurement line to show deformation

# Examples



## Problems

- Location unclear, important when estimate contains multiple line items with same repairs
- Damage unclear, is damage outside allowable tolerances? What is the correct repair method?

## Improvement

- Show damage from different perspectives (incl top view)
- Add line-item details to photo meta data

**Thank you for  
your attention ...**

# Q&A



[martin.schoeler@fletec.io](mailto:martin.schoeler@fletec.io)