



ACTRIS Labelling Process – Feedback by DC In Situ

Markus Fiebig – NILU/ACTRIS DC In-Situ unit leader

ACTRIS Aerosol In Situ Community Meeting, 27th May 2026

ACTRIS Aerosol In Situ Labelling Criteria

1. Minimum Implementation Requirement:

observation of 4 mandatory parameters

- aerosol particle number concentration
- aerosol particle number size distribution (fine range)
- aerosol particle light scattering coefficient
- aerosol particle light absorption coefficient

plus 1 optional parameter, e.g.

- aerosol particle number size distribution (coarse range)
- aerosol particle chemical speciation
- aerosol particle elemental / organic carbon mass concentration

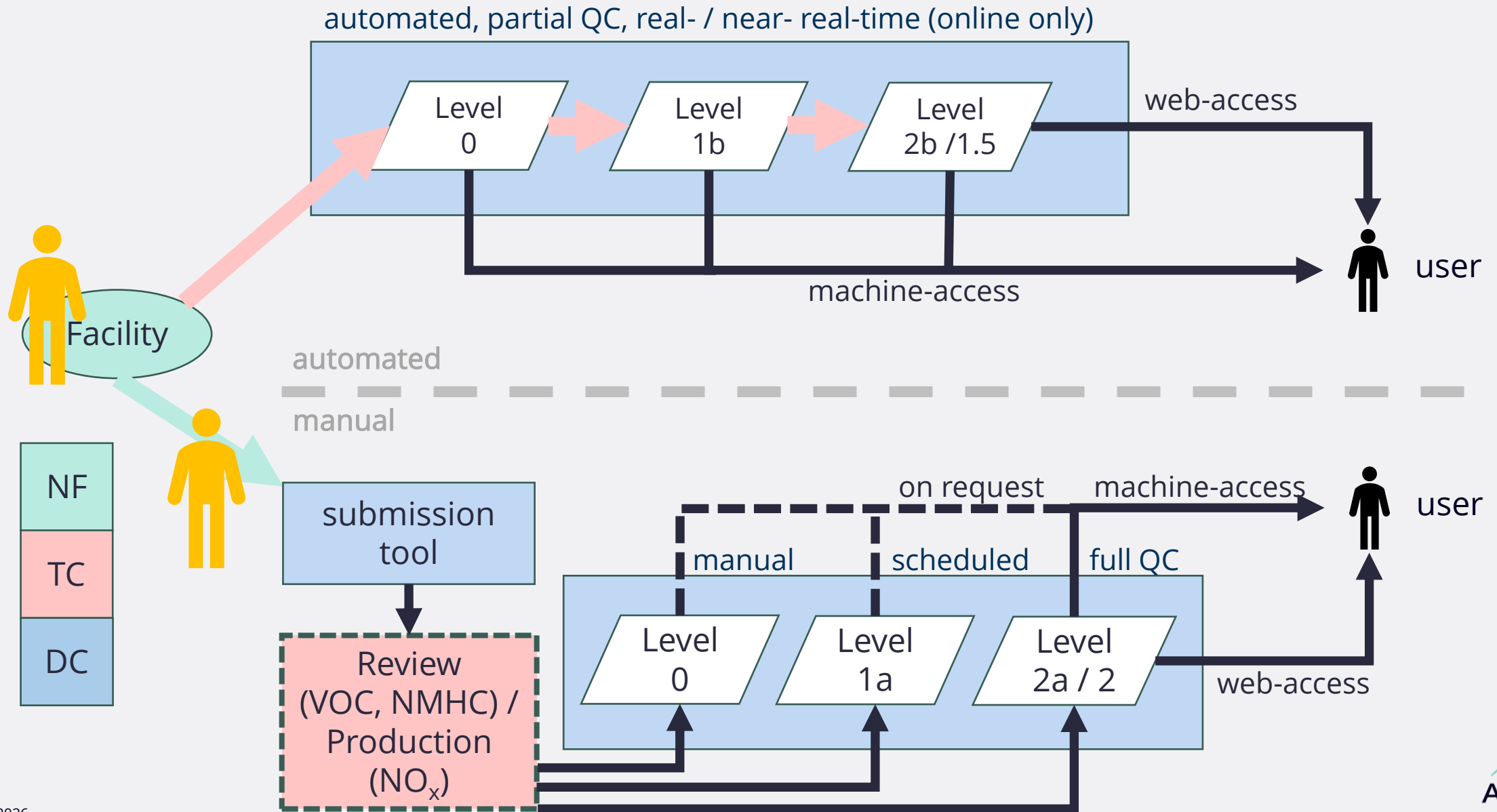
2. Data for at least 3 parameters, each at least 24 consecutive months, submitted to ACTRIS DC In Situ in compliant fashion (timely by deadline, traceably / all levels) («3 out of 5 exception»)

3. RT data submission implemented where applicable, at least 3 months of RT data submitted. «3 out of 5 exception» can be applied.

Experiences and Feedback

- Labelling criteria are somewhat unlogical. 5 observed parameters are mandatory, but only 3 need to be reported for 24 months and in RT to be labelled.
- Full set of requirements becomes relevant only for labelling step 2 (re-evaluation after 5 years)
- Document with labelling criteria isn't widely available for reference.
- Labelling criteria aren't visible in the labelling portal for everybody's reference.

ACTRIS In Situ Data Production - Today



ACTRIS In Situ Data Production–Future, Online Data

- Traceable
- Efficient
- Reliable
- NF involvement
- Homogeneous procedures

