11. Privacy-aware handling of employee information to validate their qualification and build trust in supply chain

NEC Corporation

Demonstrating qualification of employees working in a supply chain to build trust in it while protecting their privacy

A Creation & Confirmation

B Construction & Distribution

C Verification & Maintenance

Issues to be Solved and Development Plans

It is urgent for many corporations to implement various measures mandated by regulations such as NIST SP-800 or WP29. Many of such regulations now also request to demonstrate compliance by showing evidences. It is not yet clear, however, how the evidences related to employees' should be handled in accordance to personal data protection regulations such as GDPR, and that uncertainty and the burden of handling evidences bring a lot of work to do to all corporations willing to comply.

Issue #1: Redundant efforts in a lot of corporations to determine what to record, and how, to comply with GDPR.
Plan #1: Produce a whitepaper to show common items to be recorded as evidences related to employees working in different business sectors so that they do not have to be found out again by other corporations.
Issue #2: Enormous amount of work, if done manually, required in collecting and processing evidences daily.
Plan 2: Prototype a system to collect and process evidences and see if it reduces the amount of work sufficiently.
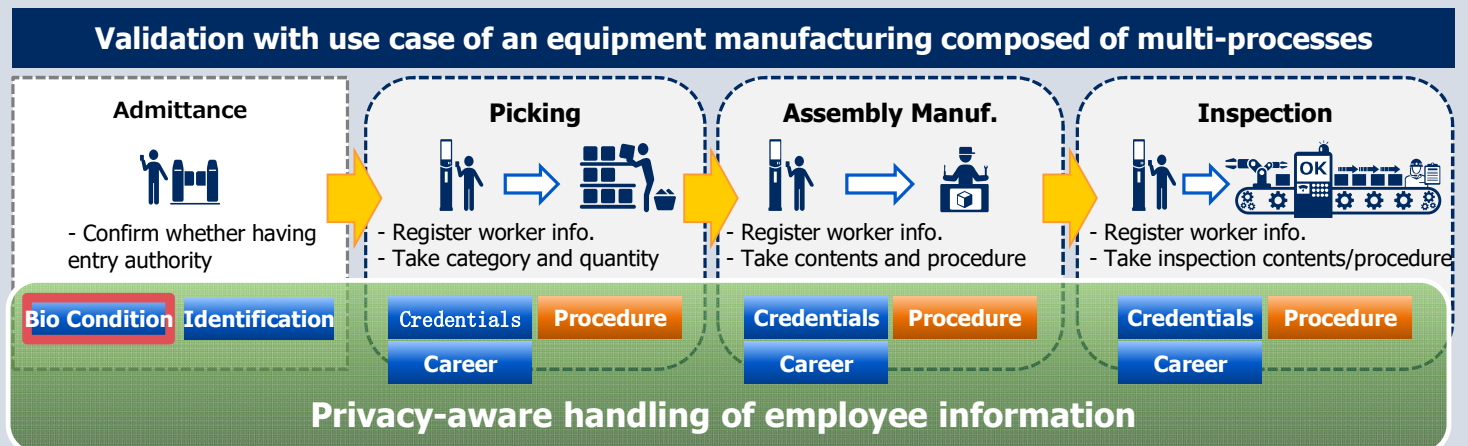
FY2020 Target #1: Publication of a whitepaper

- Publish a whitepaper listing up items to be collected as evidences so that it will serve as a reference of standard practices. Get ready by the end of this FY to make an application for the endorsement from a data protection authority in Europe.
- Get a DPA's endorsement in FY2021 to show the whitepaper is GDPR compliant.

Publish the work to make it a social asset and standardized

FY2020 Target #2: Validate how much work can be saved by systematization

- Validate the amount of work saved by systematization in comparison to manual operation
- Collect employee information to show both employee qualification and procedure integrity

Validation with use case of an equipment manufacturing composed of multi-processes

Admittance
- Confirm whether having entry authority

Bio Condition   Identification

Picking
- Register worker info.
- Take category and quantity

Credentials   Procedure   Career

Assembly Manuf.
- Register worker info.
- Take contents and procedure

Credentials   Procedure   Career

Inspection
- Register worker info.
- Take inspection contents/procedure

Credentials   Procedure   Career

Privacy-aware handling of employee information

Validate by prototyping that systematization eases handling evidences a lot.