FWSB Status Report Finland

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Metsäteho

1. MillTerminal

2. Pulpwood Online

+ Forest Hub by TietoEvry

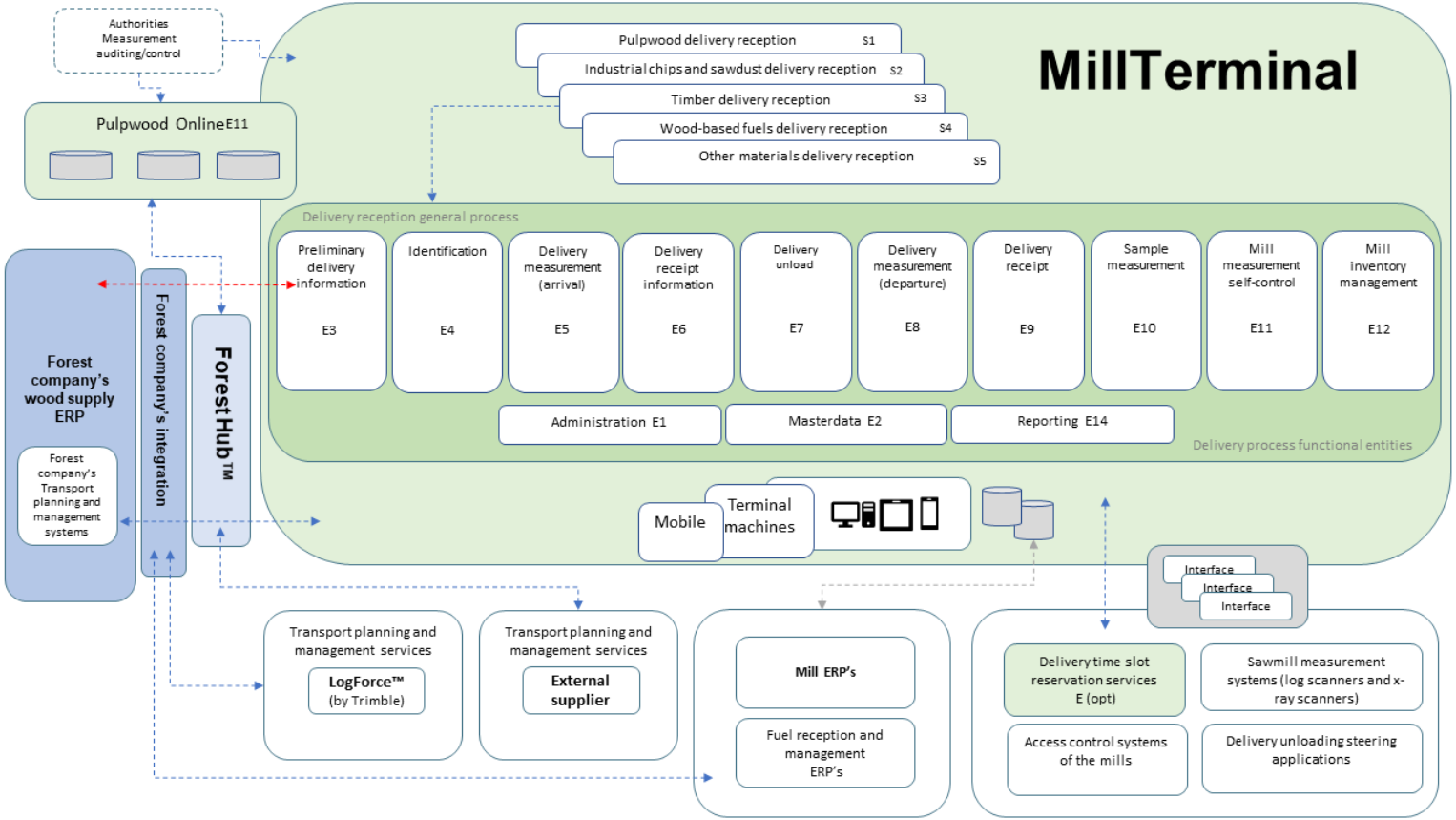
1. MillTerminal
Project status and schedule

- Preparation phase 01-10/2020
- Feasibility study (demand definition) phase 10/2020 - 09/2021
- IT system purchasing process (RFP) 09/2021 - 09/2022
  - Decision on the system supplier has been done and will be published soon (negotiations are still going on)
  - Planning phase has been started
- Design phase 11/2022 – 09/2023
  - Technical specifications, system architecture, integrations etc.
  - Device hub and measuring system interfaces together with manufacturers to take place 04 – 06 / 2023
    - possible changes to papiNet will be prepared
- Implementation phase 05/2023 – 10/2024
- System integration 2024 and UAT 2025
- Go-live planning and preparations and Pilots 2024 – 2025
- Go-live 2026

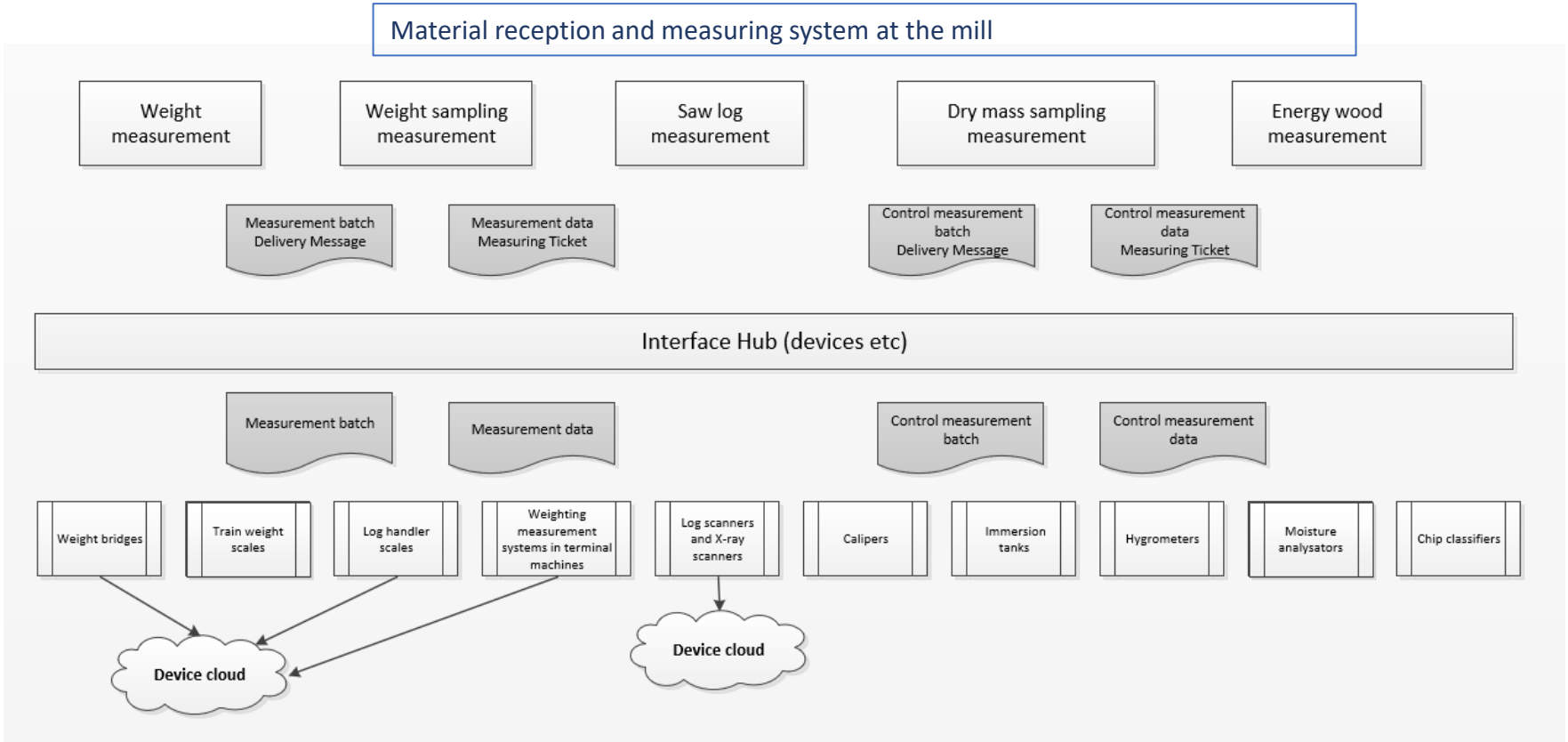
MillTerminal project and goals

- Next generation material reception ICT system for the forest industry to be used both in Finland and at the foreign mills
- Managing of raw material reception logistics in mill environments
  - wood and other materials
  - automation of material reception, measurement and handling
- Enable high accuracy material measurement in reception process
- Integrate the mill material (near real-time) dataflow between mill and suppliers by using papiNet integration message standard and Tieto Forest Hub standardized integration service.
- Enable to plan, steer and lead material logistics for optimized mill production.
- Objective is to develop a modern ICT solution which fulfils the requirements of the digital transformation of the wood supply
  - based on cloud technology
  - flexible and efficient data management
  - modular based system
  - ICT environment consists of technologies, products and components with different lifecycles
  - standardized data interfaces (ERP's, measuring systems, external applications)

Scope and logical architecture



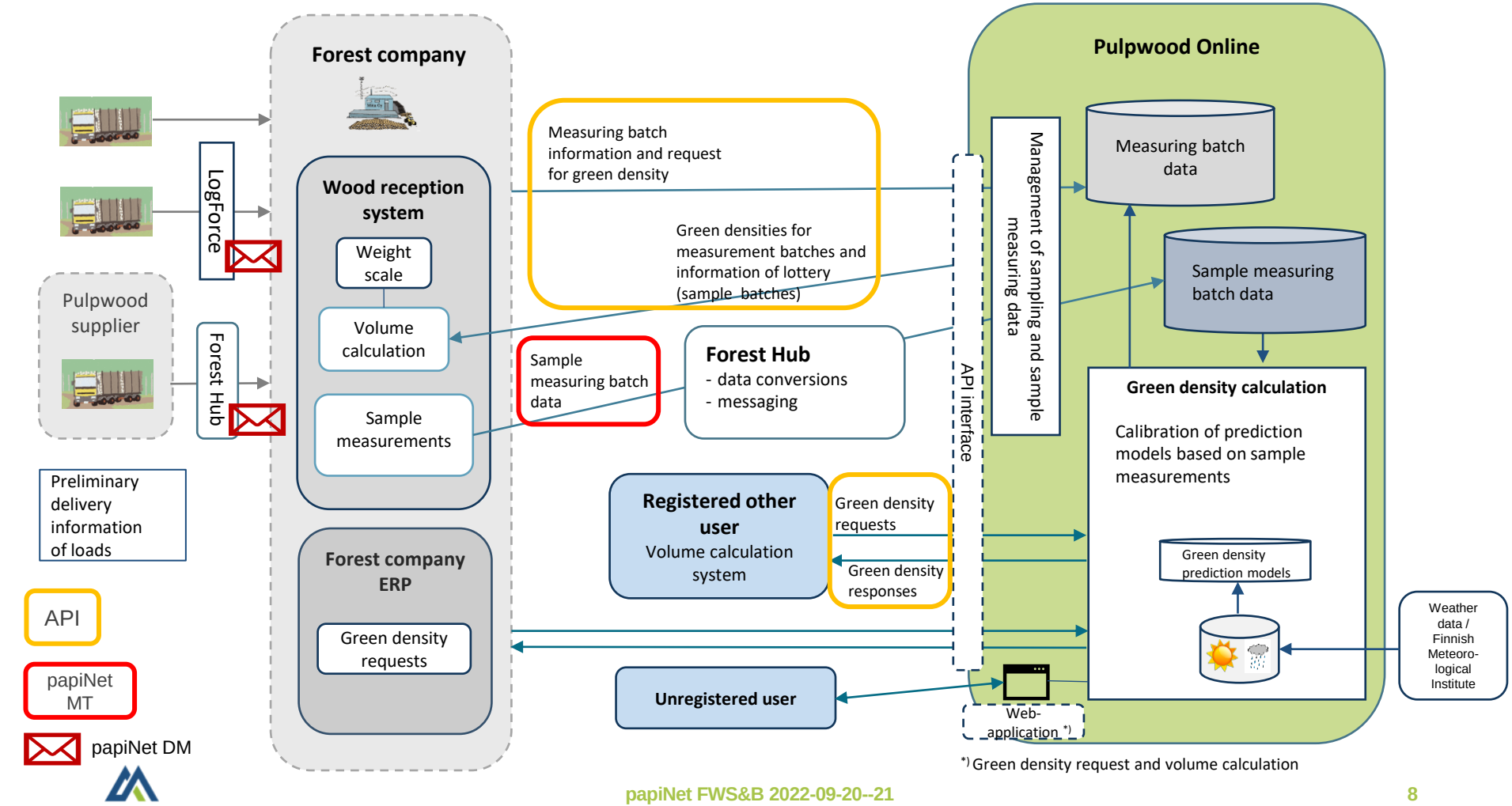
Common standardised interface between measuring systems and measuring devices (e.g. log scanners)



Pulpwood Online project status

- Pulpwood Online is a calculation service for managing adaptive green density models in weight sampling based pulpwood measurement systems
  - reception measurements at mills and terminals
  - weight scale measurements of timber trucks and forest forwarders
- The green density prediction models have been formalized by Luke's order and available for wood measurement from the beginning of 2022

- Building and implementation phase is going on (09/2021 – Q4/2022) with Tietoevry as system provider
  - Microsoft Azure as platform, calculation core from Luke, weather data integration to FMI …
  - API and papiNet messages have been specified and API interfaces are ready to use
  - testing and piloting continues (SIT phase for company-specific testing)
  - changes in forest company and third party systems
  - web site and other communication material under construction
  - design of SaaS including service governance model and pricing
- Go-live Q1-Q2/2023 →



*) Green density request and volume calculation