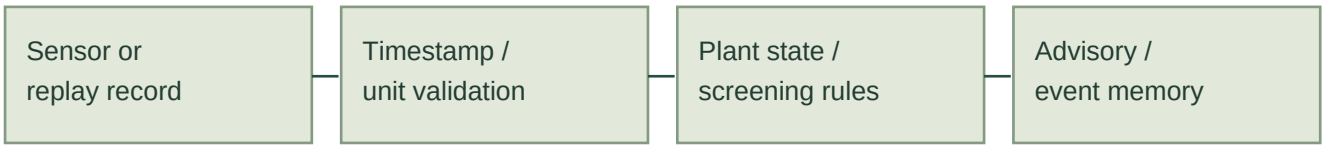
GFIS EcoTwin

Visual engineering brief

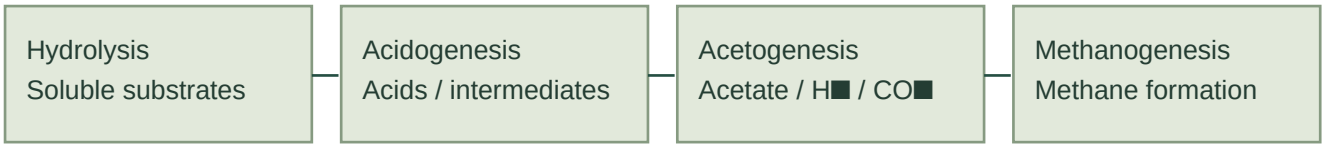
A compact explanation of the student prototype, its data pathway and process boundaries.

One state across the monitoring workflow



The twin displays the same state; acknowledgement records review, not resolution.

Biological process context



Conceptual sequence. The teaching model does not integrate ADM1 kinetics.

What the arrows mean

A record passes through quality checks before it becomes a state. Rules create an advisory with its reason and input coverage. The operator can save and acknowledge the event. The same record controls the 3D scene. Research timestamps remain irregular and missing measurements remain absent.

The working interface

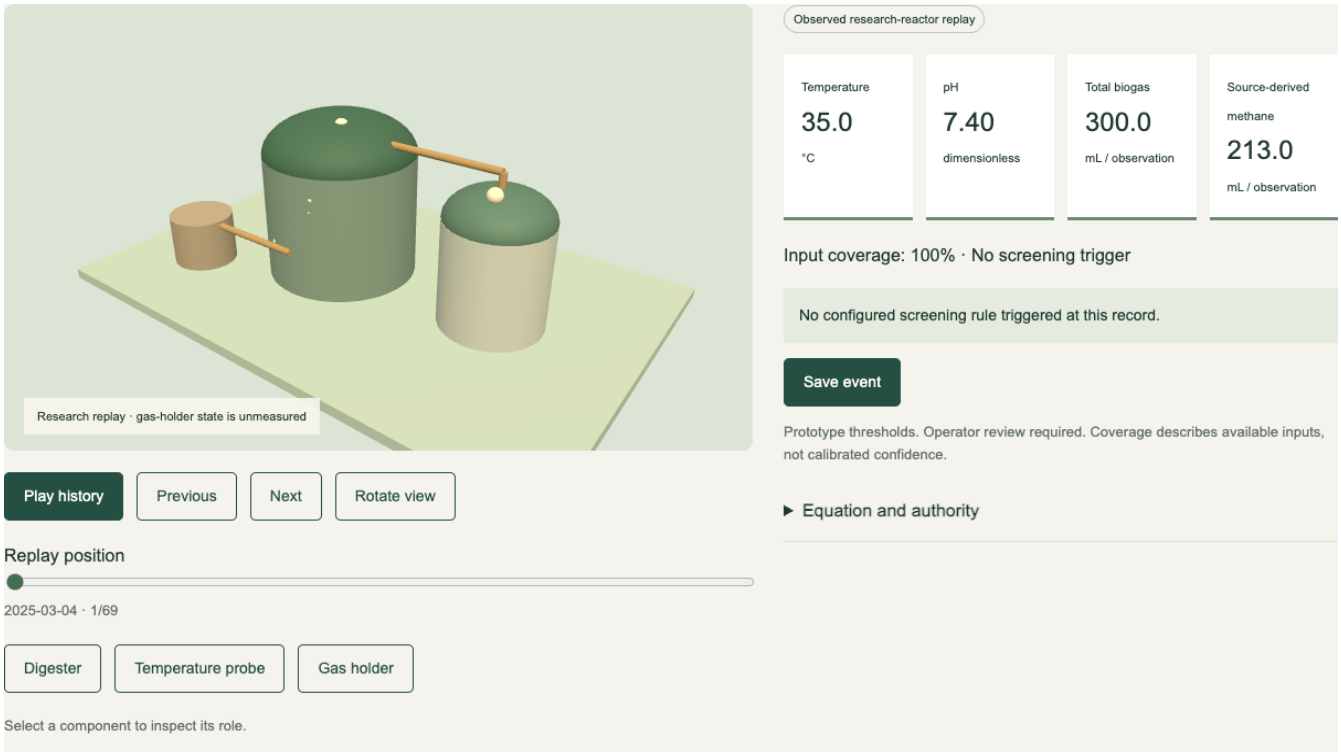


Figure: GFIS EcoTwin local plant lab, captured on 9 September 2026. The scene represents the selected state; it is not a physical-flow solver.

Demonstration route

Overview → Plant lab → Research replay → Synthetic sensor loss → Save event → Export JSON → Team → Reading library. Vijayalaxmi and Sakshi open the idea and ROS2 approach; Sunaina and Sneha explain data and 3D; Samina and Shweta show alerts and telemetry.

Before the SIH submission

Confirm institutional nomination, exact registration names, official deck template and the live problem statement through the SPOC. Obtain the company signature for the prepared sponsorship letter. Hardware bench work and field evaluation remain future milestones.