

Crop Urbanis Platform

CEA project decision support

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Structure the evidence behind a CEA project decision.

The Crop Urbanis Platform is a controlled-environment agriculture project decision-support system in development for vertical farms and hydroponic greenhouses. It links project requirements, supplier claims, assumptions, calculations and professional reviews so that alternatives can be compared before configuration, procurement and delivery commitments are made.

Workflow

Establish the project baseline

Record the project objective, site, intended market, crop and production targets, facility and utility constraints, budget, schedule, decision owners and unresolved questions.

Capture source claims

Bring permitted project and supplier material into the workspace while retaining the original document, source location, wording, version and access conditions.

Map requirements and alternatives

Connect claims to project requirements; normalise units and terminology; identify missing operating conditions; and make alternative configurations comparable.

Build design cases

Apply versioned physical, production, utility and financial calculations to explicit assumptions and ranges. Each design case records its model version and validity conditions.

Review uncertainty and dependencies

Show which inputs are verified, estimated, disputed or unknown; identify sensitivity drivers; and record which conclusions depend on them.

Record and carry forward the decision

Store the selected alternative, rationale, reviewers, unresolved conditions and affected downstream requirements for procurement, delivery, commissioning or handover.

Capability groups

Project baseline and requirements

Structure project context, requirements, constraints, responsibilities, evidence gaps and validation questions.

Supplier evidence and configuration comparison

Retain supplier claims with their sources and operating conditions; normalise comparable values; and identify omissions, exclusions and requirement conflicts.

Scenario and decision analysis

Compare physical, production, utility and financial design cases through explicit assumptions, ranges, model versions and sensitivity analysis.

Decision continuity

Record reviews, approvals, rationale, dependencies and changes; identify affected work when an input changes; and carry accepted information into downstream project requirements.

Current Platform implementation and validation status.

This page distinguishes implemented software behaviour, internal use, organisational deployment, research evidence and later roadmap work.

Project baseline and requirements

An internal user can create a project record, register permitted source material, record requirements, constraints, owners and unresolved questions, and prepare the baseline for review.

Supplier evidence and configuration comparison

An internal user can register permitted supplier documents, retain source references, map selected claims to project requirements and prepare a comparison and clarification record for review.

Scenario and decision analysis

An internal user can create conditional design cases from explicit assumptions, apply versioned calculations, compare sensitivities and prepare a reviewable decision record.

Decision continuity

The current record preserves reviews, rationale, unresolved conditions and downstream requirements; dependency-based change-impact coverage is being extended.

Boundary

The current product focus is project definition, evidence comparison, design-case review and decision recording. It is not presented as an operating greenhouse platform.

Current focus

- Project baseline and requirements
- Permitted-document extraction and source linking
- Supplier and configuration comparison
- Explicit assumptions and versioned design cases
- Sensitivity and unresolved-information review
- Professional review and decision records
- Selected procurement, commissioning and handover inputs

Not claimed

- Control of climate, irrigation or greenhouse equipment
- Autonomous agronomy or engineering approval
- Promises concerning yield, cost, return or delivery performance
- Investment advice
- Public self-service
- An always-connected or operational digital twin