

# The Parameterized SUI Protocol

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A SUI is not fully defined until its parameters are documented. The Parameterized SUI Protocol is a structured specification format that captures everything needed to (a) communicate the SUI unambiguously, (b) instruct a verification auditor, and (c) design a financial instrument around it.

## The SUI Parameter Set

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Every SUI must specify the following eight parameters:

#	Parameter	Description	Example (Becaps)
1	<b>SUI Name</b>	A plain-language name that identifies the unit	Chemical Displacement per Hectare
2	<b>Outcome Domain</b>	The system being changed (taxonomy-linked)	Climate — GHG Emissions Avoided (IRIS+ PI5765)
3	<b>Application Event</b>	The specific company action that triggers one SUI	Application of 1 kg Becaps biostimulant to 1 hectare of cultivated land
4	<b>Baseline Value</b>	Counterfactual outcome in the absence of the intervention	220 kg N/ha synthetic fertiliser application (regional average, DANE 2023)
5	<b>Observed Value</b>	Measured outcome with the intervention	85 kg N/ha (average across 120 trial plots, 2023–2024)
6	<b>SUI Magnitude</b>	Net impact = Baseline ? Observed, converted to outcome unit	135 kg N/ha displacement × 0.758 CO <sub>2</sub> e/kg N = 102.4 kg CO <sub>2</sub> e/ha
7	<b>Uncertainty Range</b>	95% confidence interval on the SUI magnitude	±12.3 kg CO <sub>2</sub> e/ha (±12%)
8	<b>Verification Protocol</b>	How, when, and by whom the SUI is verified	Annual third-party LCA audit by certified GHG verifier; SSOT ingest from production batch records + soil lab reports

## The SUI Specification Document

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A complete SUI specification document contains the parameter set above plus the following supporting sections:

# Section A: Taxonomy Mapping

Map the SUI to every relevant standard:

- IRIS+ indicator code(s) and description
- SDG target(s) (e.g., SDG 2.4, SDG 13.1)
- EU Taxonomy objective and activity code (if applicable)
- TNFD indicator (if nature-related)
- AIMM sector and dimension (if MDB investment is planned)

# Section B: Baseline Documentation

For every SUI, the baseline must be documented with:

- Source of baseline data (peer-reviewed study, government statistics, industry survey)
- Year of baseline data and update frequency
- Geographic scope and representativeness
- Baseline degradation plan (what happens if the baseline changes — e.g., if synthetic fertiliser use declines nationally)

# Section C: SSOT Architecture Summary

A brief description of the Single Source of Truth system that will hold the underlying data:

- Data sources feeding the SSOT (ERP records, IoT sensors, lab reports, satellite data)
- Data governance: who can write, who can read, what is immutable
- Audit trail: how a verifier accesses historical records
- Verification interface: the data export format provided to third-party auditors

# Section D: Aggregation Rules

How individual SUI events are summed to produce period totals:

- Temporal aggregation (annual, quarterly, rolling 12-month)
- Geographic aggregation (by country, region, or global)
- Double-counting prevention (if a product is applied and then re-applied to the same area in the same period)
- Boundary conditions (minimum threshold for counting one SUI event)

# The SUI Specification Template

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SUI SPECIFICATION DOCUMENT

Version: 1.0

Company: [Name]

Date: [YYYY-MM-DD]

Author: [Name, Role]

Verifier (pending): [Name of planned third-party auditor]

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#### PARAMETER SET

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1. SUI Name: \_\_\_\_\_
2. Outcome Domain: \_\_\_\_\_  
IRIS+ Code: \_\_\_\_\_  
SDG Target: \_\_\_\_\_
3. Application Event: \_\_\_\_\_  
Trigger condition: \_\_\_\_\_  
Unit of application: \_\_\_\_\_
4. Baseline Value: \_\_\_\_\_  
Baseline source: \_\_\_\_\_  
Baseline year: \_\_\_\_\_
5. Observed Value: \_\_\_\_\_  
Measurement method: \_\_\_\_\_  
Sample size / coverage: \_\_\_\_\_
6. SUI Magnitude: \_\_\_\_\_  
Calculation:  $(\text{Baseline} - \text{Observed}) \times [\text{conversion factor}]$
7. Uncertainty Range: \_\_\_\_\_  
Confidence level: \_\_\_\_\_
8. Verification Protocol: \_\_\_\_\_  
Verifier type: \_\_\_\_\_  
Verification frequency: \_\_\_\_\_  
SSOT access method: \_\_\_\_\_

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#### TAXONOMY MAPPING

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IRIS+:  PI5765  PI7685  Other: \_\_\_\_\_  
EU Taxonomy:  Mitigation  Adaptation  N/A  
TNFD:  Yes (metric: \_\_\_\_\_)  N/A  
AIMM:  Sector: \_\_\_\_\_  N/A

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#### VALIDATION SIGN-OFF

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Internal review by: \_\_\_\_\_  
Date: \_\_\_\_\_  
External verification by: \_\_\_\_\_  
Date: \_\_\_\_\_  
Verification standard used: \_\_\_\_\_

# Living Document Protocol

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The SUI specification is a *living document* that must be updated under the following conditions:

- When the product formulation or delivery mechanism changes materially
  - When the baseline data source is updated (triggers recalculation of all prior SUI magnitudes, with appropriate notes)
  - When the company expands to a new geography with a materially different baseline
  - When the verification protocol changes (e.g., new verifier, new standard)
  - At minimum annually, as part of the impact reporting cycle
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*Continue to Chapter 3: [The SSOT Architecture](#) — building the data infrastructure that makes SUI verification possible.*

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