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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | FG-AI4A-I-# | |
| **Focus Group on AI and IoT for Digital Agriculture** | |
| **Original: English** | |
| **WG(s):** | | Working group or N/A | Place, dd-dd mmm yyyy | |
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| **Abstract:** | Insert an abstract under 200 words that describes the content of the contribution in a form suitable for inclusion in the meeting report as a summary of the content of the document, including a clear description of any proposals it may contain. See also Rec.A.2, clause I.1.2 for guidance. |

## FG-AI4A agriculture use case & solutions template

# Title of the use case

(Authors full name /affiliated institution/organization/contact details (E-mail address))

# Part A

1. Introduction (-maximum 2 pages) (part A)

* Contextual illustration (e.g., project/ research concept)
* Purpose/objective of use case (should be aligned with title, it has explanatory content)
* Actors/stakeholders involved (Ecosystem description in terms of actors and business roles (see appendix tables- it is not necessary/not obliged to fill the table))

1. Description (Background)

* Materials and methods (short description of applied AI and IoTs specifics to use case)
* Country specifics (Including geographical location)
* The scale of the use case type
* Process flow diagram
* Outcomes/ results of use case high level (at least highlight a few results or KPIs performance and key lessons/challenges in implementing use case)

# Part B

1. Architectural considerations

## Data management (included AI-related aspects)

NOTE - Topics that could be addressed here include data acquisition, transmission, processing, output, and governance (including ownership, security, privacy, etc.). - To be refined (inspiration can also be taken from the relevant details of the ITU-T FG-DPM template presented).

## System architecture

* System architecture diagram and overall description
* Definition and description of sub-systems (including AI and IoT subsystems)

## Communication infrastructure

* Interfaces, protocols for communications

## Deployment considerations (technical considerations e.g., 4G vs 5G)

## Regulatory considerations

1. Results of the use case (outcomes)

* Performance and evaluation criteria (including KPIs).
* Qualitative and quantitative comparison of before and after implementation of the use case, the comparison can be illustrated by graphs, tables, figures, etc.,

1. Lessons learned (particular to implementations of use case)
2. Available standards

* ICT or Agricultural
* Available international standards

1. Links for supporting material (website, articles, etc.,)
2. Appendix

**Appendix 1: Actor / Business role**

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| **S No** | **Actor** | **Business role** |
|  | Component/item of the monitored system | Contribution of the actor to the ecosystem implementation. |
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**Appendix 2: Actor role**

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| **Actor name** | **Actor type** | **Role description** |
| Component/item of the monitored system | Type of the actor (person, organization, device, system) | Role of the actor within the monitored system |
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**Appendix 3: Communications technologies**

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| **Scenario** | **Communication network** | **Technologies** |
| Connection scenario (sender to receiver) | Network type (WAN, MAN , LAN, PAN) | -Mobile Technology (GSM, 2G, 3G, LTE, WiFi, (CDMA),  -Fixed line broadband.  Networks should have Ipv6 or dual stack (IPv4 and IPv6) capability. |
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