**Malmon Logical Framework (at end of project June 2025)**

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|  | **Results’ level/Indicators** | **Indicators** | **Baseline (ref.01/01/2020)** | **Target (ref.31/12/2024)** | **Current value (30/06/2025)** | **Proposed source/method of information** | **Assumptions** |
| **Impact** | *Mangrove swamp rice farming systems (MSR) sustainably adapt to climate change and socio-economic transformations and contribute to national food and nutritional security and sovereignty in GB* | ***IND I.1.*** *Number of farmers who claim a gain among target groups (similar to GDI 1)* | *O* | *300 farmers* | 2247 | * *Survey among farmers and researchers* * *Project’s reports* |  |
| ***IND I.2.*** *Number of hectares impacted among target groups (similar to GDI 2)* | *O* | *690 ha* | 1864 |
| **Outcomes** | ***O.1.*** *Appropriate innovation, resulting from the integration of science and local knowledge, addresses the sustainable and continuous adaptation of the MSR systems and of the contribution of mangrove ecosystem to livelihoods* | ***IND O.1.1.*** *Number of targeted farmers claiming their taking up at least one co-produced innovation (similar to GDI 9)* | *O* | *300 farmers* | 2247 | * *Survey among farmers, researchers, researchers’ supervisors and collaborating institutions’ leaders* * *Project’s reports* | *Innovation co-produced in the context of Malmon and beyond spreads over wider population* |
| ***IND O.1.2.*** *Number of innovations taken up by targeted farmers* | *O* | *20* | *Comes from project management* |
| ***O.2.*** *Capacity of MSR actors to co-produce innovation is increased – farmers, scientists, research institutions, government and NGO extension services, donor and international agencies …* | ***IND O.2.1.*** *Number of farmers who signal an increase in their own, in other farmers’ and in researchers’ capacity to (co-)produce innovation* | *O* | *60* | 1550 | * *Survey among farmers, researchers, researchers’ supervisors and collaborating institutions’ leaders* * *Project’s reports* | *Consensus between scientific and traditional knowledge* |
| ***IND O.2.2.*** *Number of researchers who signal an increase in their own and in others’ (among farmers, technicians and other researchers) capacity to co-produce innovation* | *O* | *6* | 16 |
| ***IND.O.2.3*** *Number of organisations that signal an increase in their capacity to co-produce and/or support co-innovation (similar to GDI 12)* | *O* | *No value set as target in initial proposal* | *Comes from project management* |
| ***O.3.*** *Improved co-ordination of agriculture/MSR innovation financed by public investment (particularly by the EU) in GB* | ***IND O.3.1.*** *Number of multi-stakeholder innovation platforms/mechanisms developed or strengthened (GDI 21)* | *O* | *No value set as target in initial proposal* | *Comes from project management* | * *Project’s reports* | *Public institutions and civil society address farmers and policy makers on the need and the manner for MSR to adapt*  *Government has capacity to cooperate*  *Lack of appropriate legislation does not obstruct innovation adoption* |
| **Second-Level Outcomes** | ***SLO.1.1.*** *Appropriate innovations are produced (under the leadership of MALMON) and validated in key areas of the MSR farming systems:*   1. *pest control* 2. *soils and fertility management* 3. *Adaptation of agricultural calendar* 4. *Reduction of plant density* 5. *environmental sustainability of the MSR (agri-fishing-livestock)* 6. *water management* 7. *prediction of tides and rainfall, …* 8. *varieties* 9. *farmers as researchers* | ***IND SLO.1.1.*** *Number of appropriate innovations co-produced and validated, in the following key areas:*  *From a) to h)* | *O* | *At least 20 new technologies* | *Comes from project management* | * *Project’s reports* * *Survey among farmers, researchers, researchers’ supervisors and collaborating institutions’ leaders* | *Seed multiplication system is implemented for selected rice varieties*  *Improved quality seeds and Pest Integrated Protection Programme are available and inputs are accessible in local markets*  *Key individuals trained are retained*  *Implementation agencies perform effectively* |
| ***SLO.1.2.*** *AKIS Systems related to MSR in GB are better understood and strengthened to disseminate innovation* | ***IND SLO.1.2.1.*** *Level of understanding of local endogenous AKIS* | *1 (Low)* | *3 (Moderate)* | *Comes from project management* | * *Project’s estimations* * *Project’s estimations* |  |
| ***IND SLO.1.2.2.*** *Malmon successfully disseminates its products through local AKIS* | *1 (Low)* | *3 (Moderate)* | 4 (Good) |
| ***SLO.2.1.*** *MALMON reaches out to all MSR-related organisations (particularly those funded by the EU)* | ***IND SLO.2.1.1.*** *Number of communication and cooperation initiatives taken by MALMON* | *0* | *3 workshops are organised* | *Comes from project management* | * *Project’s reports* | *Implementation agencies perform effectively* |
| ***IND SLO.2.1.2.*** *Number of technicians of MSR-related institutions trained by MALMON* | *0* | *100 technicians* | *Comes from project management* |
| ***SLO.2.2.*** *Farmers’ technical expertise and research skills are strengthened* | ***IND SLO.2.2.*** *Number of farmers who have improved their technical expertise and research skills (as perceived by farmers and by researchers)* |  | *40* | 1550 | * *Project’s estimations* * *Survey (interviews) of farmers and written survey on researchers* | *Key individuals trained by Malmon are retained by implementation agencies as resource-persons* |
| ***SLO.2.3.*** *MALMON researchers’ capacity to conduct collaborative research together with producers is strengthened* | ***IND SLO.2.3.*** *Number of researchers who have demonstrated and/or improved their capacity for collaborative research with producers* |  | *30* | 14 | * *Project’s estimations* * *Survey (interviews) of farmers and written survey on researchers* |  |
| ***SLO.2.4.*** *Farmers’ knowledge, needs and “innovativity” are systematically incorporated in formal public research processes (starting with MALMON)* | *No MALMON indicator proposed so far… Work in progress.* |  | *\_\_* | *Comes from project management* |  |  |
| **Outputs** | ***OUT.1.1.1.*** *Production of knowledge and new technology in key areas of MSR farming*   * *Seeds from adapted varieties* * *Production techniques (densities, adaptation of the agricultural calendar) and tools* * *Simple early-warning systems* * *Integrated pest management program* * *Sustainable aquaculture and fishing* * *Risk awareness of extreme climate events* | ***IND OUT 1.1.1.*** *Number of new technologies which are disseminated through knowledge communication products* | *0* | *At least 20 new technologies* | *Comes from project management* | * *Project’s reports* |  |
| ***IND OUT 1.1.2.*** *Number of dissertations, scientific reports, journal articles published, participation in scientific conferences and workshops held* | *0* | *50* | *Comes from project management* |
| ***OUT.1.1.2.*** *Validation of knowledge and new technology in key areas of MSR farming (through participatory research and validation)* | ***IND OUT 1.1.2.*** *Number of knowledge packages validated with targeted population* | *0* | *At least 20 new technologies* | *Comes from project management* | * *Project’s reports* |  |
| ***OUT.1.2.1.*** *Local MSR-related AKIS are better understood and are increasingly mobilised to disseminate information* | ***IND OUT.1.2.1.***  *Number of research papers published in the context of MALMON related to AKIS in MSR areas in GB* | *0* | *3* | *Comes from project management* | * *Project’s reports* |  |
| ***OUT.2.1.1.*** *MALMON reaches out to all MSR-related organisations (particularly those funded by the EU) – idem que* ***SLO.2.1.*** | ***IND OUT.2.1.1.*** *Number of communication and cooperation initiatives taken by MALMON*  *Idem que IND.SLO.2.1* | *0* | *3 workshops are organised* | *Comes from project management* | * *Project’s reports* |  |
| ***OUT.2.2.1.*** *Farmers are trained to matters most relevant to MSR production and research* | ***IND OUT 2.2.1.*** *Number of farmers trained in matters relevant to MSR research* | *0* | *30* | 30  *Comes from project management* | * *Project’s reports* |  |
| ***OUT.2.2.2.*** *Farmers access equipment relevant to MSR-related research* | ***IND OUT 2.2.2.*** *Number of farmers accessing research equipment* | *O (2020)* | *30* | 30  *Comes from project management* | * *Project’s reports* |  |
| ***OUT.2.3.1.*** *Researchers are willing, trained and monitored to work together with MSR producers on the field*  *(also contributes to* ***SLO.2.4.****)* | ***IND OUT.2.3.1.*** *Number of researchers willing, trained and monitored to work together with MSR producers* | *2* | *6* | *Comes from project management* | * *Project’s reports* |  |