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| **Work Package Number** | "**6**" | | | **Start/End Month**[[1]](#footnote-1) | | | | \_\_/\_\_ | |
| **Work Package Title** | Agriculture Risk Management | | | | | | | | |
| **Lead Beneficiary[[2]](#footnote-2)** | LIST | | | | | | | | |
| **Participating organisation Short Name\*\*** | ULIEGE | UOH | UCHILE | | IAV | INRA | IAAA | | AURA |
| **Total Person Months per Participating organisation:** |  |  |  | |  |  |  | |  |
| **Objectives:**  The profession of farmer is a risky trade, much more than most trades, because of its dependency on climate which he does not control and also on the evolution of the market price which he controls very little (if at all). This can sometimes put the farmer in a very difficult situation to the point that he may go bankrupt or find himself in a situation of poverty that prevents him from continuing his activities. The globalization of the world agricultural production system, the new demands of consumers towards healthier and environmentally friendly food production and climate change have all accentuated this uncertain production framework which can lead to a fatal outcome. This requests the development of a reframed food production industry. The objective of our project is to lead to a more resilient agriculture which will be able to restart regardless of the harvest or production of the previous season. The assumption of this WP6 is that farmers do not consider enough the risks they take when they decide their production activities and that a better knowledge of the risks taken and the acquisition of risk reduction methods would give them keys to be more resilient.  The objectives of this WP are  1) Improve the assessment of production risks taken by farmers  2) Propose methods to reduce production risks at both short and long terms  **Collaboration Objectives**: Effective knowledge transfer between partners during secondments and workshops and trainings on different agriculture risk management methods and tools for the participants. | | | | | | | | | |
| **Description of Work and Role of Specific Beneficiaries / Partner organisations broken down and listed into numbered tasks including the following details:**  **Task 6.1 “Develop methods and tools to improve the assessment and forecasting of production risks taken by farmers”**   * *Total number of Person Months allocated to secondments= "\_" :* * Use of historical data (satellite images, climate, etc.) for characterizing and analyzing trends on crop production across a region, followed by developing forecasting techniques to enable the development of risk reduction techniques. OK * Analyze and characterize the effects of different production technologies on the uncertain scenarios due to geography, climate, consumer trends, for different crops to construct tractable measures of investment risk. * Improve crop early warning systems by integrating available market information (activity shared with WP5) as new explanatory variables of crop yield. * *…*   **Task 6.2 "** **Develop methods and tools to reduce/mitigate production risks** "   * Total number of Person Months allocated to secondments= "\_" : * Develop agronomic risk reduction techniques (seeding of different crops, diversity of varieties, seeding at different times, selection of crops adapted to the present and future climate and soil conditions, etc…) * Conversion of CAPEX (equipment, buildings) for farmers transforming them in OPEX for an easier adaptation to the highly changing context of production (avoiding farmer's overburden) * Development of adapted and sustainable Fodder/Crop insurance systems in order to switch a climate/market risk to into a financial one * *See with economists !!* * *Relocation and optimization of the value chain (shorter distribution channels, conversion to organic farming, etc.) with the aim of preserving and restoring resources (land, climate, water) while reducing the impact of transport over long distances and ensuring local resilience for both producers and consumers (One Health).* * *Dissemination of confirmed good agricultural practices implemented on different continents to reduce the agriculture risks.* | | | | | | | | | |
| **Description of Deliverables:**  D6.1 Three scientific papers published in co-authorship  D6.2 Annual Workshop on Risk Forecasting and Management with researchers and local stakeholders.  D6.3 Generation of data repository to be shared across participants  D6.4 Generation of a recommendations report / tool set for local producers  D6.5 Hands-on Course / Lectures/ trainings on risk management for local producers  D6.6 Dissemination to the target audience (farmers) and the general public via different media (newspapers, social networks, television, etc.) to accelerate the transition and reduce agricultural risks | | | | | | | | | |

1. **Start/End Month** refers to months of the project not calendar months [↑](#footnote-ref-1)
2. **A "lead Beneficiary" must be a Beneficiary (= organisation established in a MS/AC)** and cannot be a TC Partner organisation [↑](#footnote-ref-2)