# ESCAPE-2 Quarterly WP Progress Report - WP1 Algorithms & Mathematics

Notes for completing the quarterly report:

* Please provide a high-level summary of the WP’s progress towards the ESCAPE-2 objectives
* If a task was not active during the quarter (as per the project timeline), simply state “Task not active” and remove the sections “Objectives” to “Deviations”
* Please state the relevant deliverables and milestones for this period
* Please state clearly the objectives for this period, and how they support reaching the overall objectives of the WP for each task
* Please state clearly the progress made, highlighting where we go beyond the state-of-the-art
* Note any deviations, including impact on other work (in this or other WPs), including delays, change of focus, scope, etc.
* Please update risks as appropriate (existing risks reported here: <https://confluence.ecmwf.int/display/ESCAPEII/Risk+Register>

*Start Month: 1*

*End Month: 32*

*WP Leader: POLIMI & LU*

## Summary of progress towards ESCAPE-2 objectives for WP1

## Task Progress

T1.1 Development of semi-implicit semi-Lagrangian DG model

*Start Month: 1*

*End Month: 32*

*Task Leader: POLIMI*

*Related Deliverables:*

*Related Milestones:*

**Objectives for this quarter**

**Progress this quarter**

**Deviations**

T1.2 Identification of local data recovery approaches for resilient and fault tolerant solvers

*Start Month: 1*

*End Month: 32*

*Task Leader: POLIMI*

*Related Deliverables:*

*Related Milestones:*

**Objectives for this quarter**

**Progress this quarter**

**Deviations**

T1.3 Development of multigrid and multilevel technology in FV model

*Start Month: 1*

*End Month: 32*

*Task Leader: LU*

*Related Deliverables:*

*Related Milestones:*

**Objectives for this quarter**

**Progress this quarter**

**Deviations**

T1.4 Training & Verification of Artificial Neural Networks

*Start Month: 1*

*End Month: 32*

*Task Leader: DMI*

*Related Deliverables:*

*Related Milestones:*

**Objectives for this quarter**

**Progress this quarter**

**Deviations**

T1.5 Extraction and provision of weather and climate dwarfs

*Start Month: 1*

*End Month: 27*

*Task Leader: POLIMI & LU*

*Related Deliverables:*

*Related Milestones:*

**Objectives for this quarter**

**Progress this quarter**

**Deviations**

### Risks

*Existing Risks (previously reported) materialised*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Risk** | **Trigger** | **Score** | **Impact** | **Probability** | **Risk Owner** | **Mitigating Actions** | **Mitigation Owner** | **Due Date** |
|  |  |  |  |  |  |  |  |  |  |
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*New Risks identified*

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Risk** | **Trigger** | **Score** | **Impact** | **Probability** | **Risk Owner** | **Mitigating Actions** | **Mitigation Owner** | **Due Date** |
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