Spoke 2 use cases

Definition and workflow document

| **Spoke** | 2 |
| --- | --- |
| **WP** | 1 (o piu’ nel caso di multi WP) |
| **Use case short name** | LATTICE\_ON\_DATALAKE |
| **Use case ID** | UC2.2.1 |
| **Expected Completion** | 1/8/2025 |

## Approval workflow

| **Status** | **Version** | **Date** | **Submitter** | **Note** | **Signature** |
| --- | --- | --- | --- | --- | --- |
| Submitted to Spoke Leaders | 1.1 | 1/1/2023 | WP Leader | First version |  |
| Submitted to Spoke Leaders | 1.2 | 15/1/2023 | WP Leader | Revision after discussion with SLs |  |
| Accepted by Spoke Leaders | 1.2 | 1/2/2023 | Spoke Leader |  |  |
| Intermediate report | 1.2 | 1/6/2023 | A collaborator … | Activity at month #5 |  |
| … |  |  |  |  |  |
|  |  |  |  |  |  |

##

## Acronyms

* SP(s): Spoke Leader(s)
* WP(s): Work Package Leader(s)
* UC: Use Case
* KPI: Key Performance Indicator

Use case definition

Define why the problem is relevant in the current scenario of research / industrial application.

Provide a landscape of the state of the art, and which improvements are expected to improve the current status.

Include references to previous work.

Participating Institutions

* Leader: XX (one contact name or more - if preferred, all can be leader)
* Participants: YY, ZZ, FF (one name per participant, or more)

Industrial involvement

(if present) describe the involvement

(if not present) describe IF there are possible uses of the solution / technology / use case

Use Case Expected Activities

The activities on the use case will include:

* First period (tentatively month 0-3): xxxx
* Second Period (tentatively month X-Y): xxxx
* …
* Xth period (tentatively month X-Y): xxxx

KPIs

| **KPI ID** | **Description** | **Acceptance threshold** |
| --- | --- | --- |
| KPI2.2.1.1 | code speedup with respect to XX | 10% |
| KPI2.2.1.2 | Error on quantity XX | reduced by XX% with respect to [33] |
|  |  |  |

Resource Needs

# Human Resources

Expected total manpower needs: XX FTE (o per mese)

* Secured (already existing & committed): XXX
* To be recruited: YYY

# External Resources Expected

For example, an activity to be carried on via an open call (describe what is needed)

# Computing resources

## Projected Needs

* XX hours of system XXXXX
* YY hours of system YY
* ZZ TB of disk

## Resources already secured

* XX hours of system XXXXX (from where??)
* YY hours of system YY (from where??)
* ZZ TB of disk (from where??)

# External Resources Needed

For example, an activity to be carried on via an open call (describe what is needed). Can be hardware or a piece of code, or an algorithm or a testbed

Expected synergies with other WPs

The activities will be carried on with the synergy and the support of

* XXX, about porting code to GPUs WP4
* …

From here on, to be filled DURING the execution

Project Report on date XXXXX

X

X

X

X

X

X

X

Project Report on date YYYYYY

X

X

X

X

X

X

X

Final outcome (only at the end) on date XXXXX

Report on results, references, papers, etc

# KPI fulfillment

| **KPI ID** | **Threshold** | **Actual value** | **Outcome** |
| --- | --- | --- | --- |
| KPI2.2.1.1 | xx | yy | PASSED |
| KPI2.2.1.2 | xx | yy | NOT PASSED |
|  |  |  |  |
|  |  |  |  |

# Final Assessment

Passed on date XXXX