

Open market consultation 04/09

CATE

(Continuous Auditing based on Techn(ological) Evolution and Data Mining)

Participation rules

Please turn camera off and **mute your microphone** throughout the event, unless the hosts appoints you or asks you individually to speak.

Additional information can be shared in the chat, though the chat will not be actively monitored throughout the market consultation.

For online voting the tool PlanITPoker is used.

Please register via the following link with **username** “<**company name**>, <family name>”
(for example: Addestino, Van Eeghem)

*If you are participating as observer, please use username “ **Observer**, < family name>”*

<https://www.planitpoker.com/board/#/room/b004ef1cc0d5420d867bcee9a7a7f8cd>

(link can be found in the chat as well)



Flanders
State of
the Art

Market consultation CATE

04/09/2020



Vlaanderen
verbeelding werkt



addestino
innovation management

Agenda

13:00 Welcome & Project Introduction

Program for innovation procurement (PIP)
CATE project introduction

13:20 Market consultation (with a few breaks)

Objectives & Approach

Presenting use cases + collecting feedback on feasibility & risk

16:45 Concluding remarks

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CATE, part of the Programme for Innovation Procurement - PIP

- PIP** Stimulates **public organisations** to use procurement as a strategic instrument for **innovation** – yearly calls – selected projects supported with advice and cofinance (up to 50%)
- WHY** It doesn't seem to happen spontaneously!
- OUTCOME** Procuring innovation with **triple impact**
- Improving performance of **public** sector
 - Strengthening competitiveness of **private** enterprises/industry
 - More opportunities to tackle major **societal** challenges
- FOCUS** to develop and validate **innovative solutions** (new products, services, systems) in response to **public needs**
- CATE** Selected by PIP early February 2020

CATE: what's in for companies?

Preparatory work so far:

- Addestino appointed as accompanying consulting company
- Better clarification of *CATE* needs (use cases) and market analysis

Today:

- Addressing you to gain your opinions on *CATE*, through a market consultation
- Offering you early involvement and insight in the forthcoming procurement track, an opportunity to co-define possible development tracks and to validate your innovative ideas and solutions into the (public) market
- Providing you with first information on the future development and timing of the *CATE* project

> 70 projects in PIP-portfolio - Interested?

PIO project portfolio:

- <http://www.innovatieveoverheidsopdrachten.be/projecten>
- <http://www.innovatieveoverheidsopdrachten.be/en/projects>
- Search and filter on policy field, topic (digitalisation) & status (in preparation, in procurement, in execution....)
- Project site: **Report** (needs and market analysis), **tender**, etc. will be published here!

Dedicated page for companies (in Dutch)

- <http://innovatieveoverheidsopdrachten.be/node/6446>
- ▶ **Sign up for PIO Newsletter (in Dutch)**
 - <http://www.innovatieveoverheidsopdrachten.be/nieuwsbrief-innovatieve-overheidsopdrachten>
- ▶ **Contact PIP-team:** pio@vlaanderen.be, piet.desiere.ewi@vlaanderen.be

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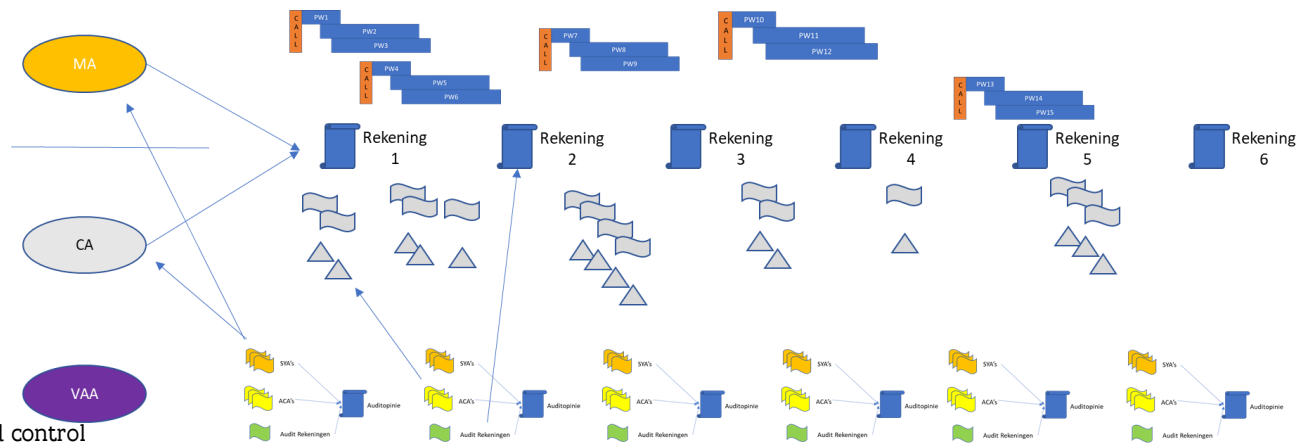
Context

- The *Vlaamse Auditautoriteit Europese Structuurfondsen* (VAA) is responsible for **auditing the use of European funds and the related Flemish co-financing**, both for funds where they themselves are lead audit authority (ESF, ERDF, Interreg VL-NED), and for funds where they have a Support audit role (Interreg NSR, Interreg Maas-Rijn, Baltic, ...)
- Objective of activities VAA are derived from European Structural Funds framework: **Correct use of EU (and national) funds** and Achieve objectives of European Structural Funds (level of prosperity, development, ...).
- Because of this, objective of VAA → provide 'assurance' (output VAA) via
 - Audit opinion certifying that the national system that manages funds is **reliable**
 - Based on **statement about the system and its operation**
 - By means of system audits (ruling on the operation of the proces),
 - By means of operational audits (redoing the process) that check decisions and motivation
 - By means of audit accounts (output MA/CA): payments based on previous checks with rules.

Observation and action domains

- Audits today take (too) long and are not always cost effective:
 - Audits do not take place until two years after effective expenditure
→ prevents/complicates the recovery of rejected costs
 - There are (too many) actions that either have little added value, or are too time-consuming
 - In case of outsourcing (small team) outsourcing means intensive follow-up of outsourced audit work
- Action domains:
 - Reacting quicker (start of project)
 - More accurate – faster – less time-consuming
 - Maximizing 'useful' work – phasing out 'low-value-added' work

Framework

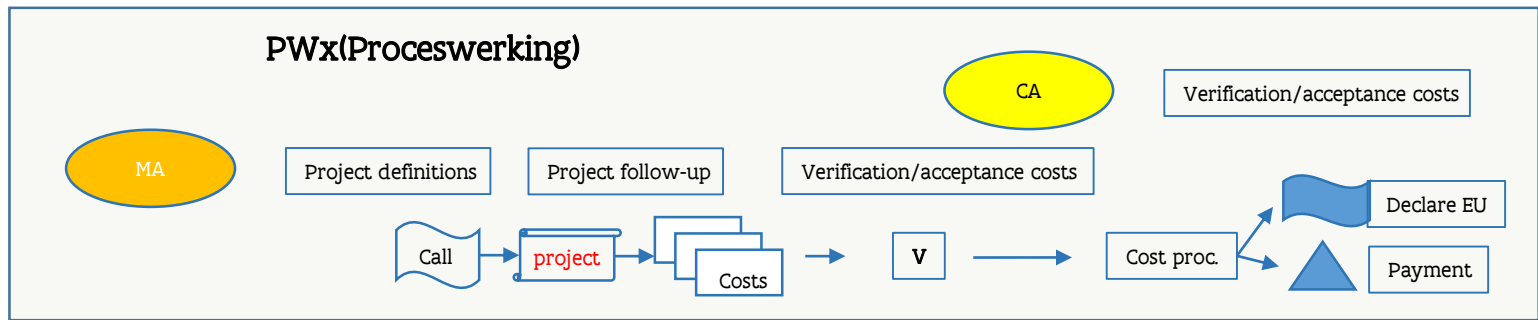


Operational program (6-jarig)

Structure
Financing

Handbook of management and control

PWx(Proceswerking)



Scope of the project

- Fully rethink the auditing of projects on a technological and conceptual level starting from the possibilities of machine learning and data mining
 - Don't automate the current process
 - How to achieve the same (type of) results based on structured and unstructured data? How can a risk analysis approach work?
 - Maximum use of automatic processing, even if this only becomes possible in the future
→ 'sufficient assurance seeking methods'
 - Starting from technical possibilities (how far is possible?), then dimming only if there are legal restrictions
- Development in two trajectories: ESF and Interreg Vlaanderen-Nederland - over the full (next) programme period (6 years/ +/- 200k - 400k euro/year)

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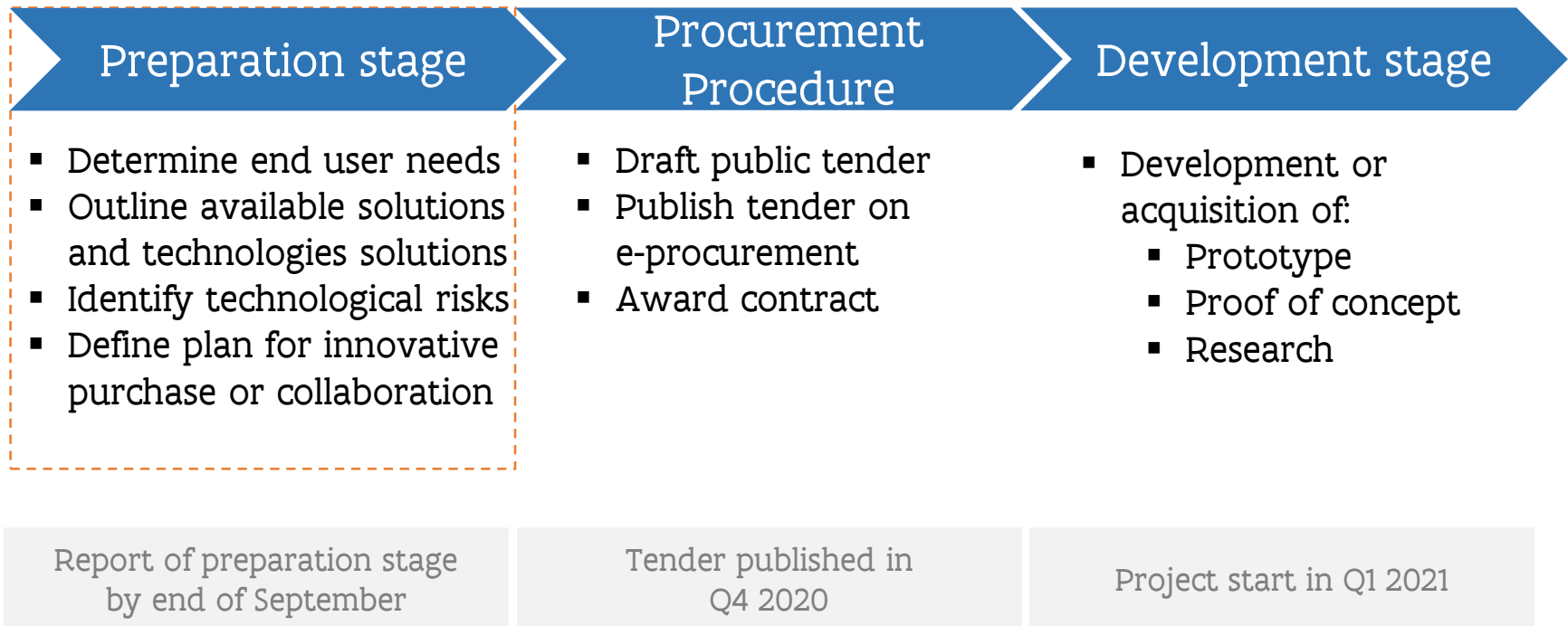
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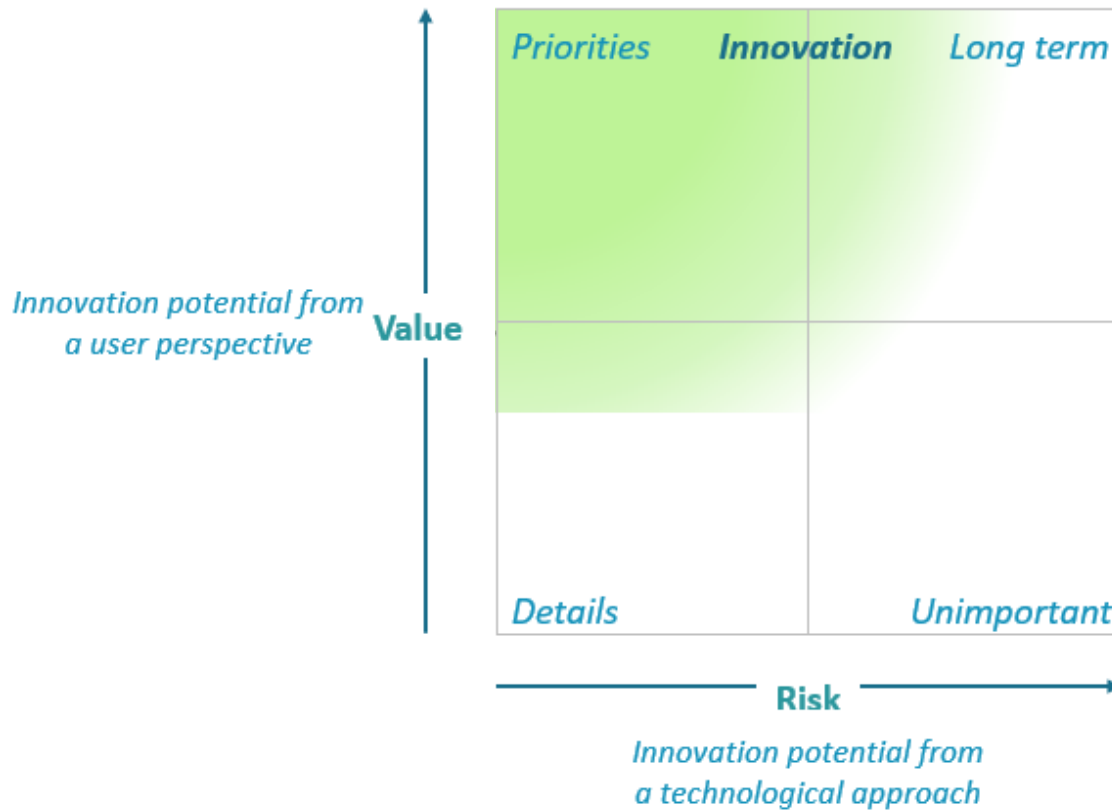
Presenting use cases + collecting feedback on feasibility & risk

16:45 Concluding remarks

The PIP project consists out of 3 phases, the current phase is the preparation stage



The essence is in estimating user value and technological risk



Value for end user is captured in use cases

Stakeholders / end users are parties involved in audit

including

- Vlaamse Auditautoriteit
- Management authority
- Certifying authority



How can data be used to efficiently determine whether the management system of funds is reliable or not?

Data needs are captured in use cases

AS A [Stakeholder]

I CAN [do something]

SO THAT [I can achieve a certain goal]



Example:

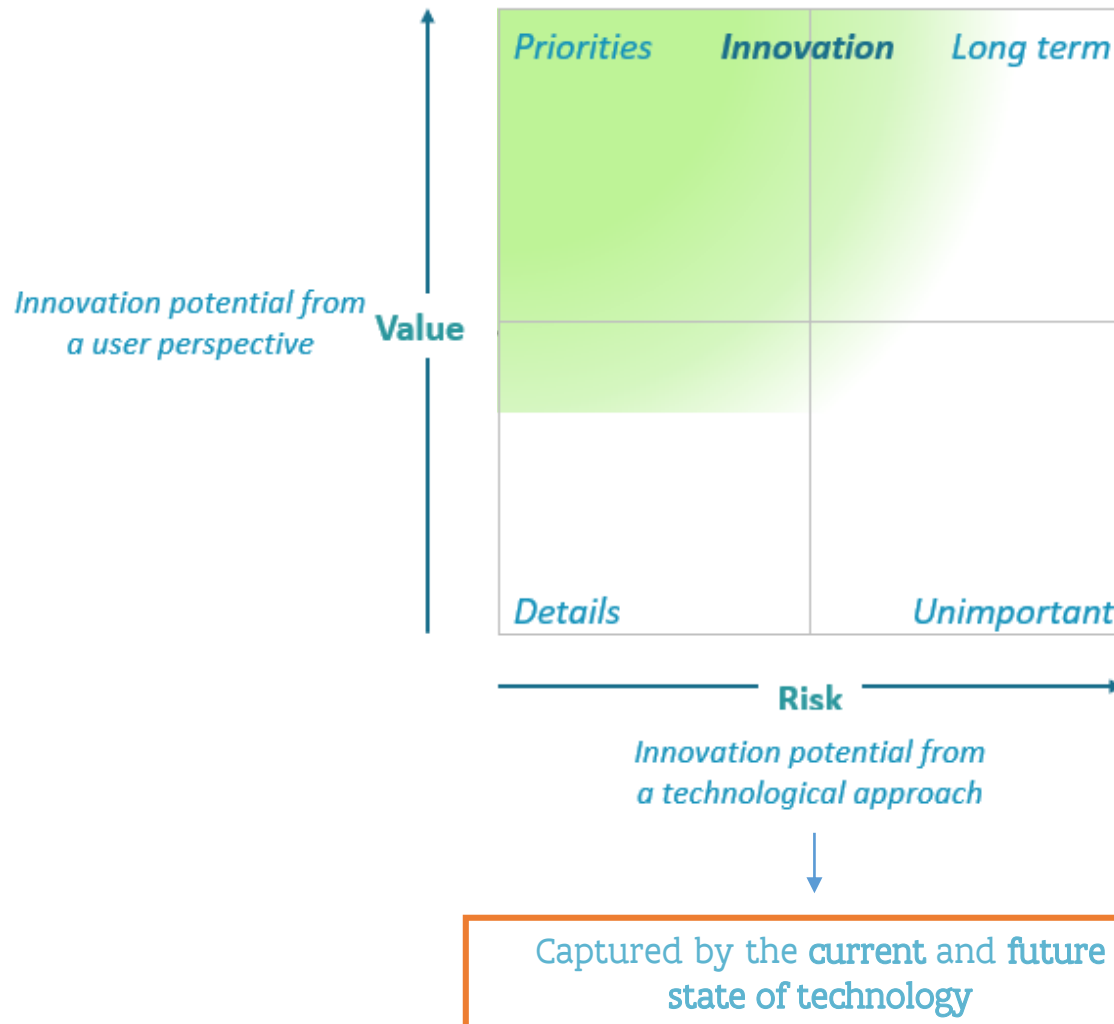
AS AN
I CAN

Auditor
automatically determine how
feasible the deliverables are for
incoming projects

SO THAT

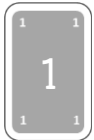
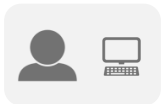
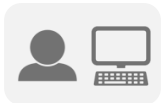
I can immediately indicate which
projects are unrealistic

To assess technical risk the current state of technology is considered for each use case



Methodology : 5 generations that indicate state of technology

The Generations



What is feasible

End-to-end autonomous software to determine reliability of the management system (no human)

Fully autonomous complex subtasks to determine reliability of the management system (no human above)

Fully autonomous simple subtasks to determine reliability of the management system (no human above)

Manual process with software support on subtasks to determine reliability of the management system (human above)

Fully manual process to determine the reliability of the management system (human)

Approach : voting per use case on current state of technology and timespan to go further

For each use case:

Present use case

Vote 1 Which generation (1, 2, 3, 4, 5) is current state of technology?
(with brief discussion of scores)

Vote 2

- How many years (1, 2, 3, 4, 5, 10) will it take to reach generation 5?
(with brief discussion of scores)

Platform : PlanITPoker

<https://www.planitpoker.com/board/#/room/b004ef1cc0d5420d867bcee9a7a7f8cd>

Market Consultation - CATE

Use case 1: current generation?

1 2 3 4 5

10 ?

Waiting for Addestino - Fre... to vote

Players: 09:04:02

Addestino - Fre... 00:00:00

Reset Timer Flip Cards

Clear Votes Skip Story

Invite a teammate

Need help with the project?

Adding developers to your team

Active Stories 0 Completed Stories 1 All Stories 1 + New Edit

Please register with username : « **company name, family name »**
If you are participating as observer, please use username " Observer, <family name>"

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risk

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Use cases are structured following phases in audits

- A Start of project / management cycle
- B Follow-up of project / management cycle
- C Closing of project / management cycle

Use Case A

AS

Auditor

AN






I CAN

estimate the project risks based on all available information at project start and historical information, and make recommendations for the weak points in the project

- Project risks: running out of money (when partially self-financed), not meeting deliverables, ...
- Information at project start: project proposal with objective, partners, planned deliverables, financials, ...

SO THAT I can provide direct feedback to increase the chances of project success

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
-  **3** – Fully autonomous simple subtasks
-  **2** – Manual process with software support on subtasks
-  **1** – Manual process

Use Case A1

AS Auditor

AN






I CAN

Automatically classify incoming projects to the right process flow

- Classify based on: value, size of organization, private/public
- Incoming projects: standardized free forms, Excel files, free attachments
- Process flow: focus on public procurement, state aid, ...

SO THAT I can follow the right steps and checks during the audit

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
-  **3** – Fully autonomous simple subtasks
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Use Case A2

AS Auditor






AN

I CAN automatically load, update and interpret the current regulations, e.g.

- Regulations on Public procurement & State aid
- European funding rules (CPR) & fund-specific regulations
- Delegated act, implementing act
- National regulations
- ...

SO THAT I can perform checks on projects to confirm compliance

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
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Use Case A3

AS Auditor






AN

I CAN automatically verify for incoming projects whether all necessary *documents* are present and in the correct format, e.g.

- correct file types
- all requested attachments are present
- ...

SO THAT I can immediately detect missing elements and signal this

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case A4

AS Auditor






AN

I CAN automatically verify for incoming projects whether all *data* is present and has the correct form, e.g.

- all sections are filled in
- numbers filled in everywhere
- VAT number is in right format

SO THAT I can immediately detect missing or incorrect elements and signal this

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case A5

AS Auditor






AN

I CAN automatically determine how feasible the deliverables are for incoming projects, e.g.

- Number of participants to trainings, mentoring, workshops
- Number of research reports & scientific publications
- Realization of infrastructure works

SO THAT I can immediately indicate which projects are unrealistic

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
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-  **2** – Manual process with software support on subtasks
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Use Case A6

AS Auditor






AN

I CAN automatically find similar historical projects based on deliverables and other objectives, e.g.

- Increasing youth employment via trainings
- Improve skills of workers via trainings
- Similar infrastructure works

SO THAT I can use relevant historical information for my analysis

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
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Use Case A7

AS
AN

Auditor






I CAN

estimate the risks within a project, where they are located and when they are likely to manifest for incoming projects

SO THAT

I can carry out targeted checks and plan interventions

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
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Use Case A8

AS Auditor

AN






I CAN

Automatically download and check whether the management system and procedures of the managing authority or certifying authority have the *correct form and are complete*, e.g.

- right document format
- all sections completed
- all attachments present

SO THAT I can check where adjustments need to be made

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
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Use Case A9

AS Auditor

AN






I CAN

automatically verify that the described management system and procedures from the managing authority or certifying authority comply with the regulations

- Compliance: e.g. segregation of duties, eligibility-rules, public procurement, state aid,...
- Management system: fixed template with free text, attachments, ...
- Procedures: free text with attachments

SO THAT I can check where adjustments need to be made

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
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-  **1** – Manual process

Use Case B

AS Auditor

AN






I CAN

Update my estimate of the project risks based on new insights and information during projects, and make updated recommendations for the weak points in the project

- New insights / information: e.g.
 - changes in organization
 - delays in deliverables
 - additional cost documents

SO THAT I can provide direct feedback to increase the chances of project success

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case B1

AS
AN

Auditor






I CAN

get access to the project data & automatically start my analysis as soon as the files are uploaded by the project partner in the program integrated management system

SO THAT

I can quickly analyze project data, detect flaws and identify them

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
-  **3** – Fully autonomous simple subtasks
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Use Case B2

AS Auditor

AN






I CAN as soon as a *document* is added, automatically check its form (correct format, attachments present)

Documents: e.g.

- Invoices
- Participants registrations
- Training certificates

SO THAT I can have an up-to-date view of the documents within projects at all times

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
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Use Case B3

AS Auditor






AN

I CAN as soon as *data* is added to a project automatically check its form and update my project overview, e.g.

- all sections completed
- numbers filled in everywhere
- VAT number in correct format

SO THAT I can immediately detect missing or incorrect elements and signal this

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
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Use Case B4

AS Auditor

AN






I CAN

automatically check whether different data sources contain consistent data as soon as a new document is added, e.g.

- Employee name on staffing list matches the labor contract
- Cost incurred matches the invoice amount

SO THAT I can detect inconsistencies

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case B5






AS Auditor

AN

I CAN automatically verify whether the totals of (numerical) data across different documents correspond with the reports as soon as the data is available

SO THAT I can immediately detect deviations and carry out a deeper investigation

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
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Use Case B6

AS Auditor

AN






I CAN automatically compare data with historical data (e.g. from other projects) as soon as the data is available

Historical data: e.g.

- Invoices
- Insights on project partners

SO THAT I can detect anomalies and draw conclusions

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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Use Case B7






AS Auditor

AN

I CAN automatically compare data with data from the Flemish government (e.g. KMO portefeuille) as soon as the data is available

SO THAT I can detect anomalies and draw conclusions

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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-  3 – Fully autonomous simple subtasks
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-  1 – Manual process

Use Case B8

AS Auditor

AN

I CAN






automatically compare data with public data sources or data sources of third parties as soon as the data is available

Public data sources: e.g.

- Graydon
- Financial statements
- Online resources

SO THAT I can detect anomalies and draw conclusions

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
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Use Case B9






AS Auditor

AN

I CAN automatically interpret the completed content of standard structured templates as soon as they are available, e.g. in financial statements

SO THAT I can use this content for my further analysis

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
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-  1 – Manual process

Use Case B10

AS Auditor






AN

I CAN automatically interpret the completed content of free forms as soon as they are available, e.g.

- Project proposals
- State aid analyses

SO THAT I can use this content for my further analysis

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
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Use Case B11

AS Auditor

AN






I CAN

automatically interpret free text as soon as it is available, e.g.

- Procedures of managing and certifying authorities
- Newspaper articles about project

SO THAT I can use this content for my further analysis

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
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Use Case B12

AS Auditor






AN

I CAN get a signal in typical (known) cases of fraud as soon as it occurs, e.g.

- A lot of small invoices in public procurement
- Carousel of people in the Board of Directors in public procurement

SO THAT I am immediately informed and can investigate more deeply or pass on the information

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
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Use Case B13

AS Auditor






AN

I CAN automatically monitor whether projects follow the correct steps in their predefined process, e.g.

- Following predefined tender plans
- Milestones in the right order

SO THAT I am immediately aware of any deviations and can follow-up closely

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case B14

AS Auditor

AN






I CAN

automatically monitor the deliverables in ongoing projects and detect when there is too much deviation from the objectives, e.g.

- Not enough trainings or workshops
- Progress on infrastructure works

SO THAT I can immediately recognize when projects are in danger of going wrong and follow up more closely

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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Use Case B15

AS Auditor
AN

I CAN calculate confidence levels on my assessments and update them during projects with new information

SO THAT I can carry out targeted research on issues I am not sure about

Generation – State of technology to indicate reliability of management system

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Use Case B16

AS Auditor
AN

I CAN get access to documents and assessments of the managing authority and certifying authority and automatically start my analysis as soon as they upload or place a final version on their server

SO THAT I can quickly detect flaws and indicate this

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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Use Case B17

AS Auditor

AN






I CAN

automatically check whether the output of the managing authority or certifying authority has the correct form as soon as it is available (e.g. right document format, everything is present)

- CA: accounts – European template
- MA: annual summary – European template with free text

SO THAT I can immediately identify missing items

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
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Use Case B18

AS Auditor






AN

I CAN automatically check the output of the managing authority through tests on specific projects by verifying that I reach the same verdict, e.g.

- Verify whether planned number of workshops is reached
- Infrastructure works have been finished
- Costs eligible for financing

SO THAT I can find and correct errors of the managing authority

Generation – State of technology to indicate reliability of management system

-  5 – End-to-end autonomous software
-  4 – Fully autonomous complex subtasks
-  3 – Fully autonomous simple subtasks
-  2 – Manual process with software support on subtasks
-  1 – Manual process

Use Case B19

AS Auditor






AN

I CAN

automatically check the output of the certifying authority (annual accounts with underlying Excel files) by verifying the same results are obtained based on the same sources

SO THAT I can find and correct errors

Generation – State of technology to indicate reliability of management system

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Use Case B20

AS
AN

Auditor






I CAN

use software that automatically learns when its evaluation differs from the evaluation of the managing authority and is deemed incorrect

SO THAT

audits becomes better and better and historical insights are taken into account

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
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Use Case C

AS
AN

Auditor






I CAN

Automatically extract and store lessons learned when closing a project, e.g. on

- project deliverables
- pain points
- project partners

SO THAT Knowledge and insights of past projects is not lost

Generation – State of technology to indicate reliability of management system

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Use Case C1

AS
AN

Auditor

I CAN






Automatically verify whether all corrections and recommendations have been implemented when closing a project, e.g.

- Have rejected costs been removed
- Missing attachments and documents been uploaded

SO THAT

No open points remain when the project is closed

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
-  **3** – Fully autonomous simple subtasks
-  **2** – Manual process with software support on subtasks
-  **1** – Manual process

Use Case C2

AS
AN

Auditor






I CAN

automatically generate an audit report and audit opinion

- Audit report: contains findings on eligibility, state aid, public procurement, indicators, ...
- Audit opinion: opinion on system efficiency (qualified / unqualified)

SO THAT manual work is minimized

Generation – State of technology to indicate reliability of management system

-  **5** – End-to-end autonomous software
-  **4** – Fully autonomous complex subtasks
-  **3** – Fully autonomous simple subtasks
-  **2** – Manual process with software support on subtasks
-  **1** – Manual process

Agenda

13:00 Welcome & Project Introduction

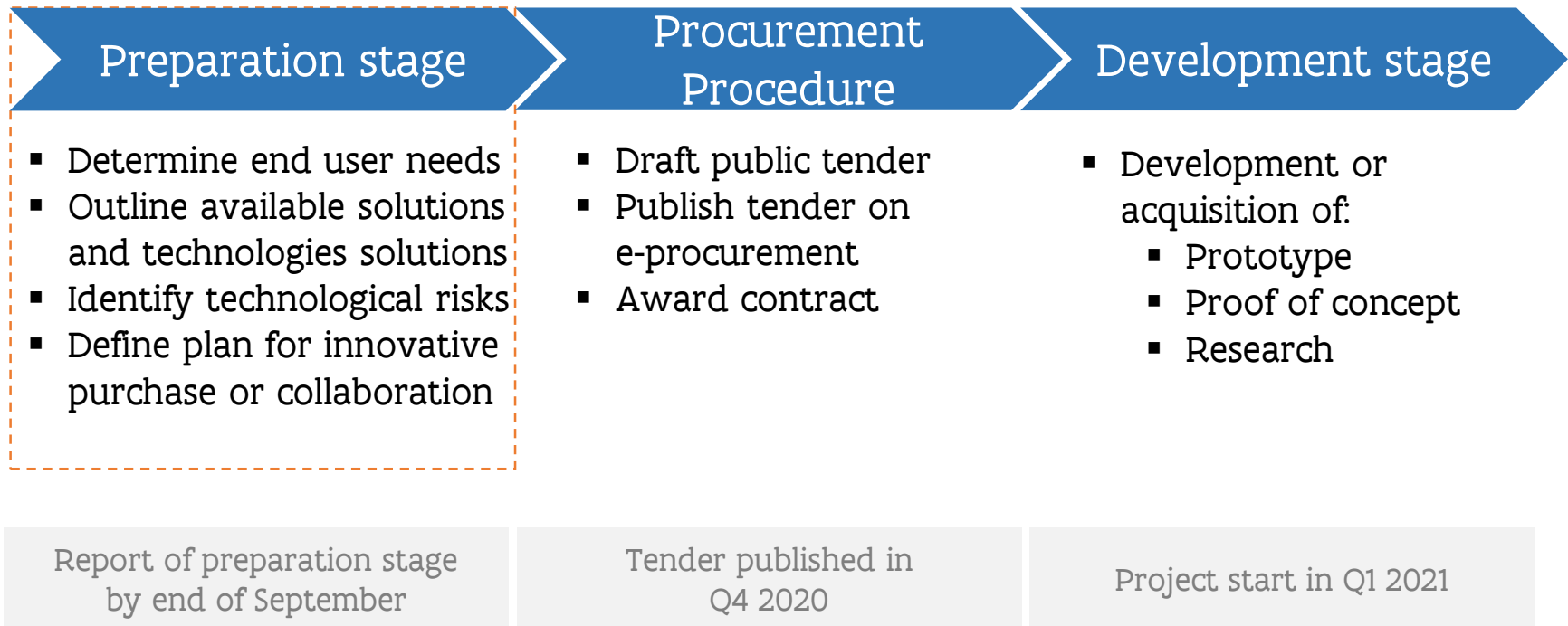
Program for innovation procurement (PIP)
CATE project introduction

13:20 Market consultation (with a few breaks)

Objectives & Approach
Presenting use cases + collecting feedback on feasibility & risk

16:45 Concluding remarks

The PIP project consists out of 3 phases, the current phase is the preparation stage



Thank you

Additional information can be sent to

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