Experiences with the use of Essence at the Federal Government in Brazil

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Agenda

- Digital Government
- Application Development Pillars
- The Solutions Delivery Process (PES)
- PES powered by Essence
- First Cases and Results
- Next Steps

Digital Government

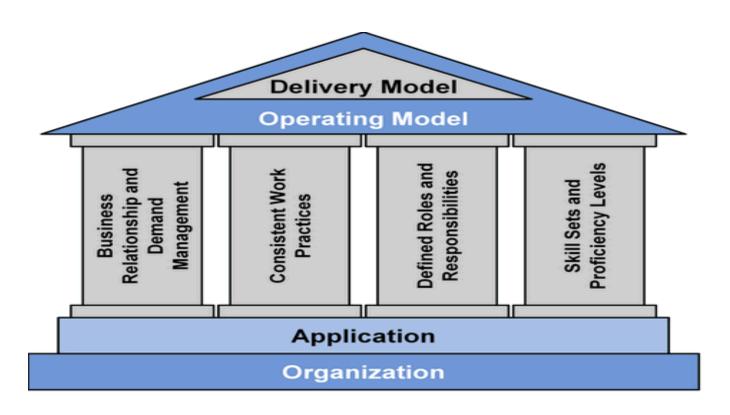


Digital Government

- Engaging Citzens
- Connecting Agencies
- Resourcing Operations

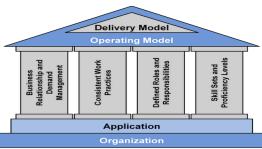


Application Development Pillars

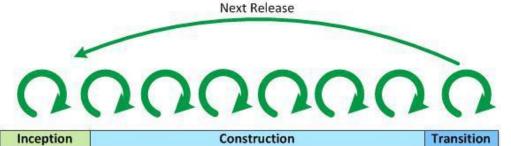


Application Development Pillars

- Business Relationship and Demand Management
- Consistent Work Practices
- Defined Roles and Responsibilities
- Skill Sets and Proficiency Levels



Solutions Delivery Process (PES)

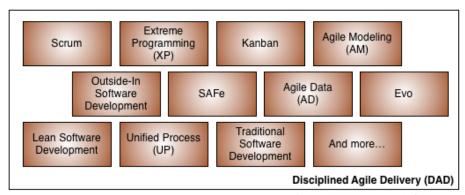


Envision and Plan

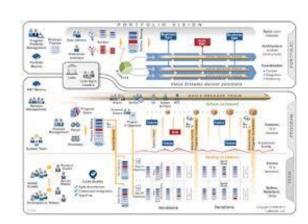
Incrementally build a consumable solution

Release solution

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PES 0.1 – The Tacit Approach

Challenges and Opportunities:

- Lack of a formal description
- Difficult to model and manage application development sourcing contracts
- Difficult to scale teaching and dissemination
- Difficult to establish a consistent governance model for internal and external actors

PES 1.0 – The SPEM/EPF Approach

Challenges and Opportunities:

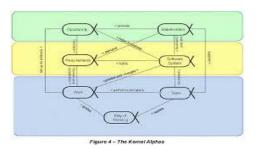
- Activity oriented (not Practice oriented)
- Difficult to evolve iteratively
- Description too detailed and technical
- Software Process analysis paralysis
- Low engagement from non software

process engineers

PES 2.0 – The Semat/Essence Approach

Challenges:

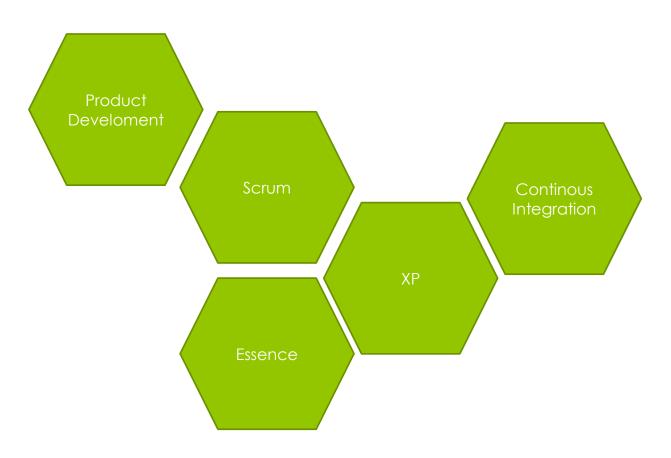
- Current Public IT Acquisition Framework
- Paradigm shift to Goal Orientation
- Restricted Tool Support
- Semat and Essence not known in Brazil



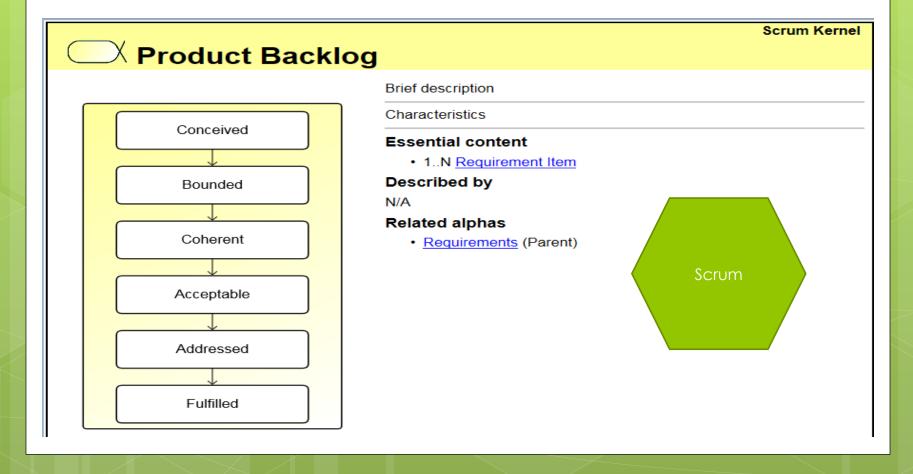
PES powered by Essence

- PES Kernel Extensions
- PES Practices
- Method Publishing (PES 2.0 Portal)
- PES Physical Deck of Cards
- Gamified Training (Lego4Scrum + Essence Cards)

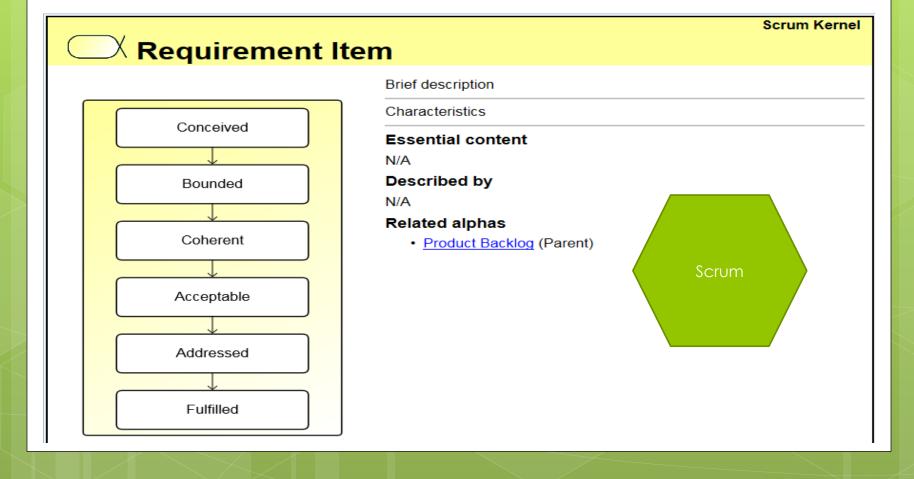
PES powered by Essence – Kernel Extensions and Practices



PES powered by Essence – Scrum Kernel Extension



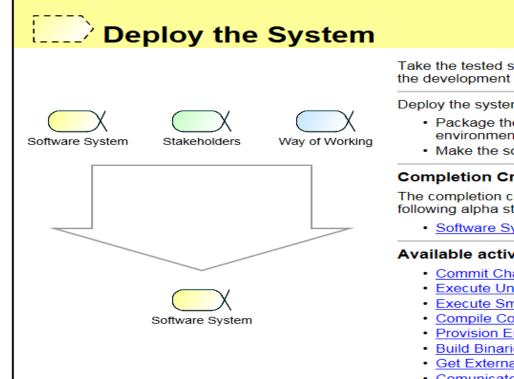
PES powered by Essence – Scrum Kernel Extension



PES powered by Essence – Scrum Kernel Extension



PES powered by Essence – Continuous Integration Practice



Continous Integration

Take the tested system and make it available for use outside the development team.

Deploy the system to:

- Package the software system up for delivery to the live environment.
- Make the software system operational.

Completion Criteria

The completion criteria of this activity space includes the following alpha states to be achieved:

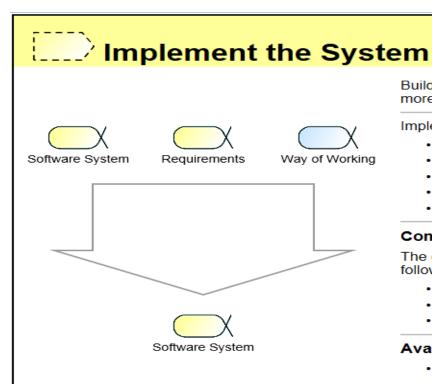
Software System: Operational

Available activities

- Commit Changes
- Execute Unit Tests
- Execute Smoke Tests
- Compile Code
- Provision Environment
- Build Binaries
- Get External Binaries
- Comunicate Results
- Analyse Code Statically

Continous Integration

PES powered by Essence – Product Development Practice



Product Development

Build a system by implementing, testing and integrating one or more system elements. This includes bug fixing and unit testing.

Implement the system to:

- · Create a working system.
- Develop, integrate and test the system elements.
- Increase the number of requirements implemented.
- Fix defects.
- · Improve the system.

Completion Criteria

The completion criteria of this activity space includes the following alpha states to be achieved:

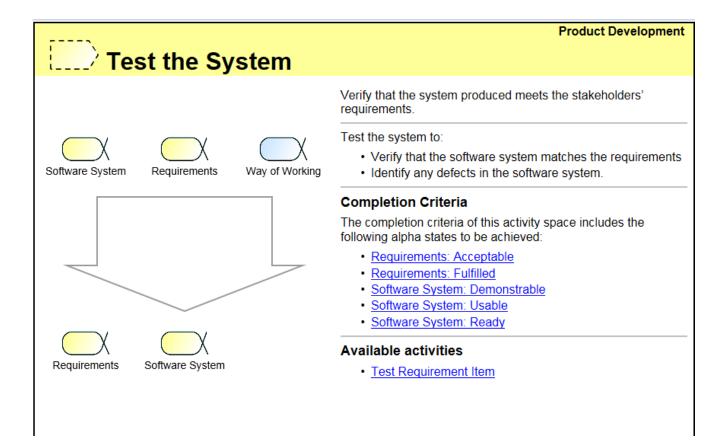
- Software System: Demonstrable
- Software System: Usable
- Software System: Ready

Available activities

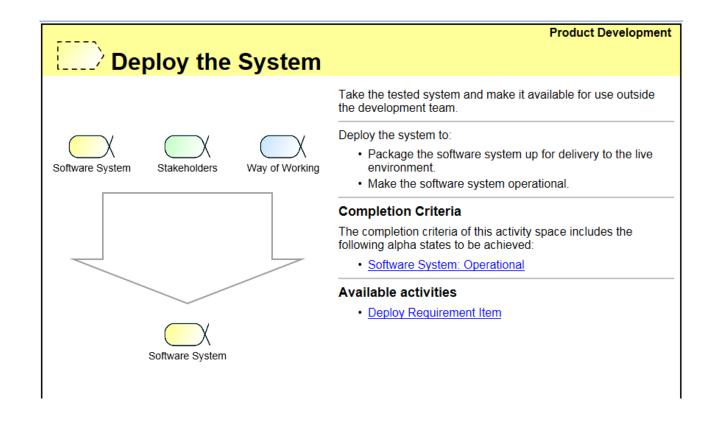
Develop Requirement Item

Product Develoment

PES powered by Essence – Product Development Practice



PES powered by Essence – Product Development Practice



First Cases and Results

- PES 2.0 Healthy Indicators use by the Project Management Office
- PES 2.0 Training, Tailoring and Enactment in the Brazilian Army
- PES 2.0 Training for Outsourced Application Development Providers
- PES 2.0 review by the Software Engineering Department of the Federal University of Rio de Janeiro (UFRJ)

Next Steps

- Alignment with Public IT Regulation Authorities
- Public IT Acquision Framework Refactoring
- Gradual Roll Out (internal and external)

Thank you!

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