

Digital Field Change Management: Revolutionizing the way of managing changes in projects

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Agenda

- Introduction
- How projects are managed traditionally
- The impact of field changes on projects
- The need for Digital Field Change Management
- Practical examples on the use of technology for field changes
- Q&A





A brief introduction

- Senior VP of Business for Cleopatra Enterprise
- MSc. Business Economics
- 10+ years experience
- Advise companies in their digital transformation of project controls
- Business Development Manager for Total Cost Management solution Cleopatra Enterprise
- Passion for driving successful change processes in complex environments

Stefan Bakker





A brief introduction to Cost Engineering Consultancy

- 25 years of experience
- Software and consultancy solutions
- Operating worldwide
- Knowledge Provider
- Empowering organizations to improve their project performance











Cleopatra Enterprise

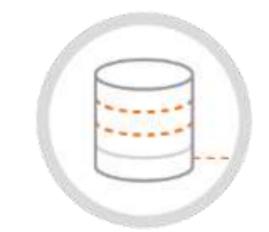


Consultancy



Academy

CESK







Issues encountered in traditional change management...

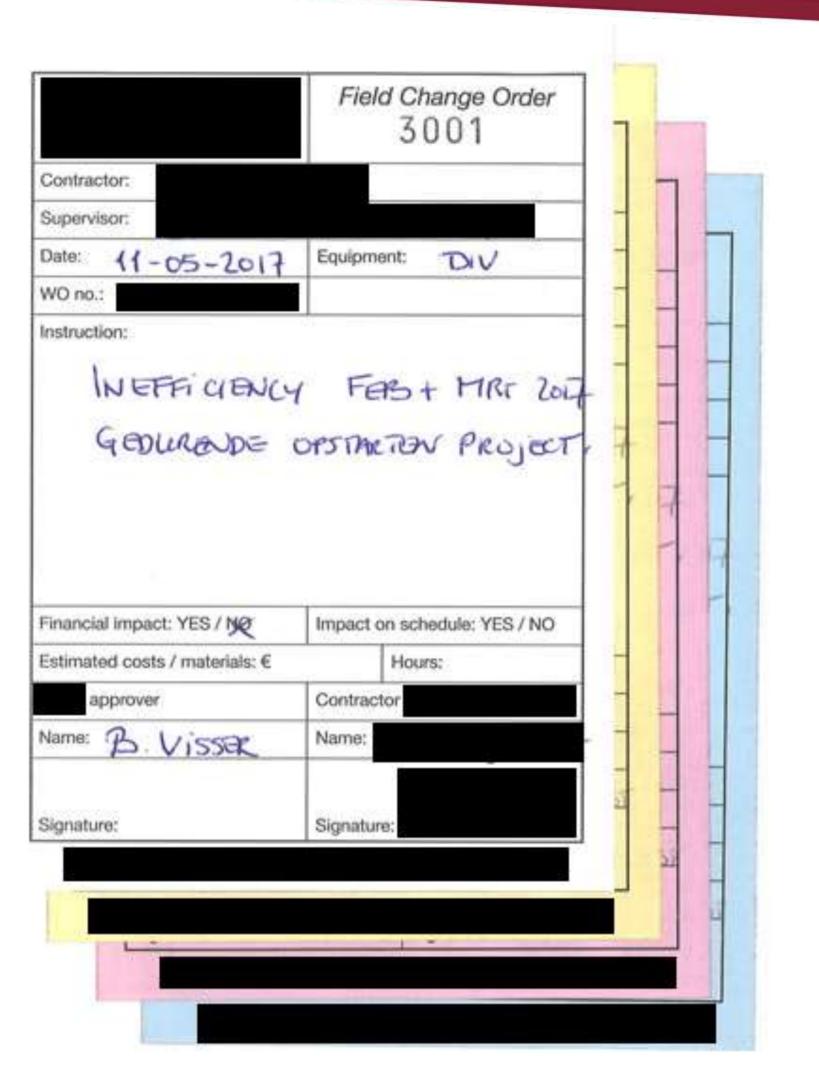
- 1. Working with poor quality of drawings
- 2. Limited time and/or difficulty identifying changes
- 3. Lack of adequate tools
- 4. Poor initial specification / scope definition
- 5. Difficulty in interpretation of standard method of measurements
- 6. Scope changes come in late
- 7. Managing a pile of administrative paperwork manually and with spreadsheet-based systems
- 8. Not all information is readily available for key decision making





The traditional way of managing field changes Use of paper forms:

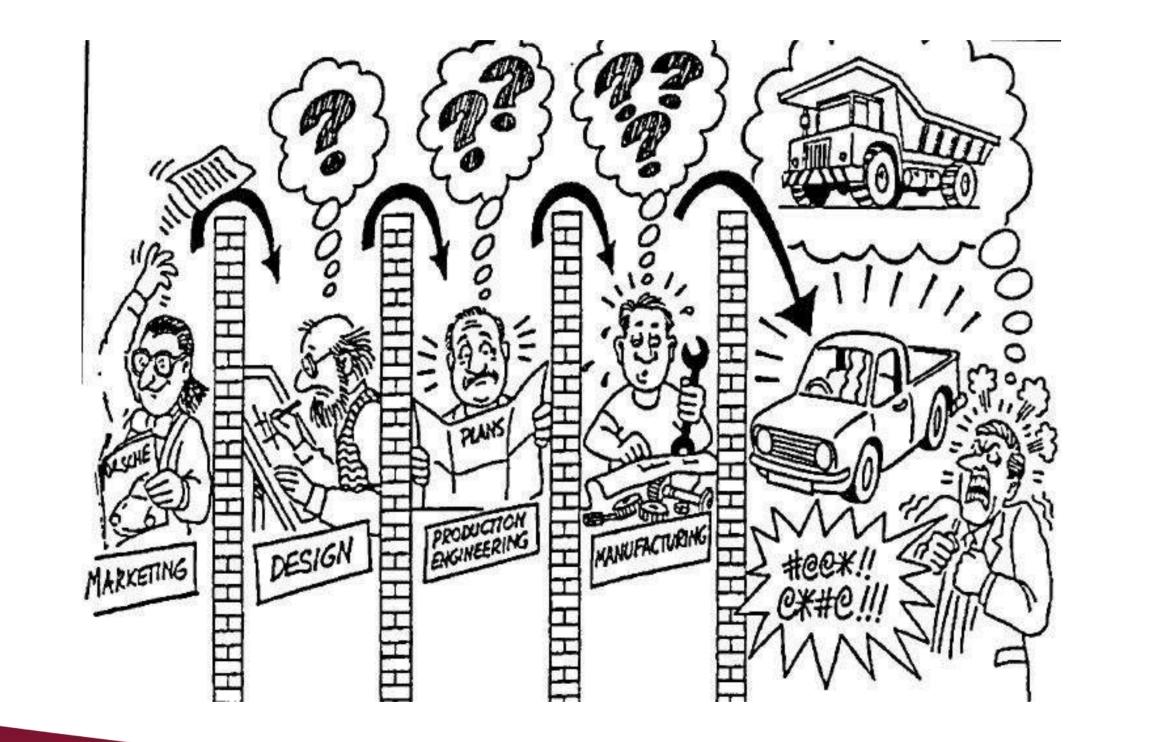
- Time consuming and inefficient
- Prone to error and omission
- Can get lost or disappear
- No dedicated system in place







The impact of paper-based change management

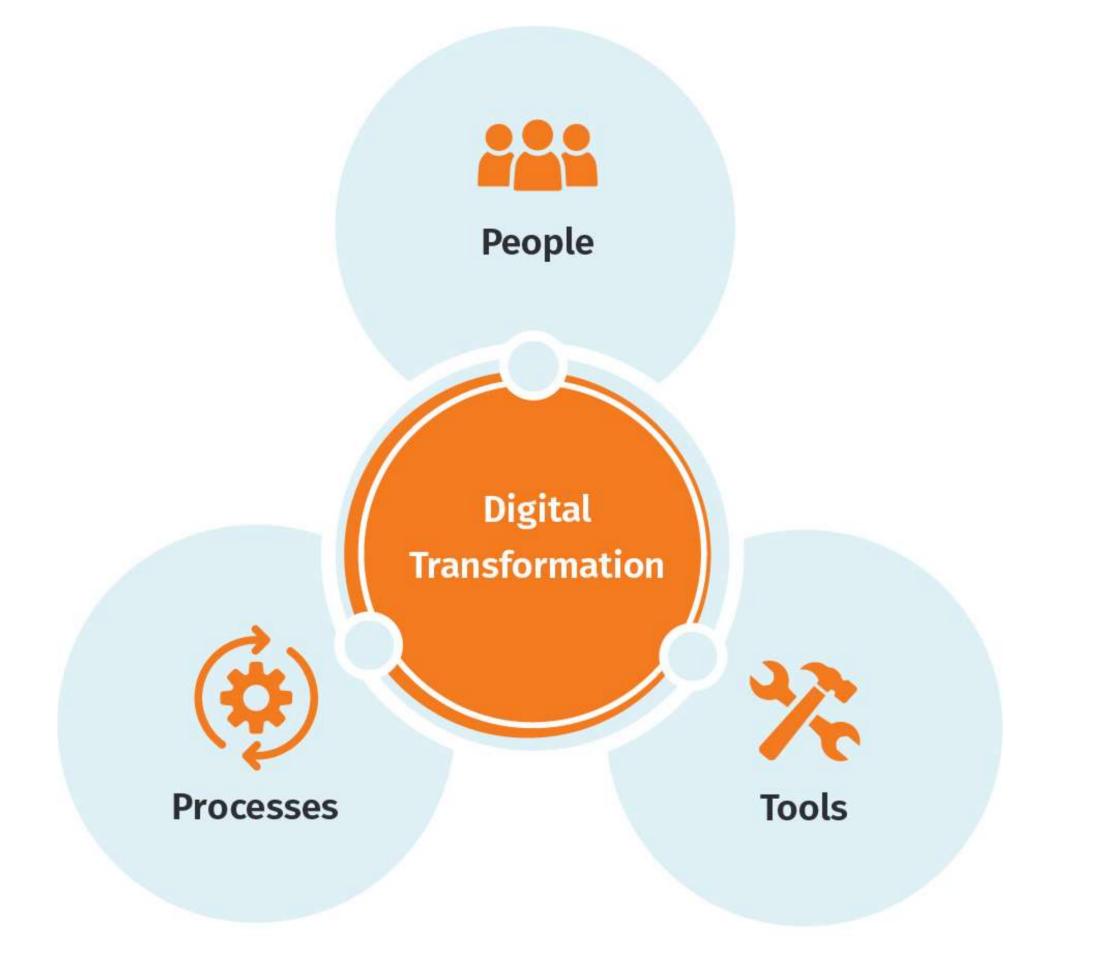






The new way of controlling projects

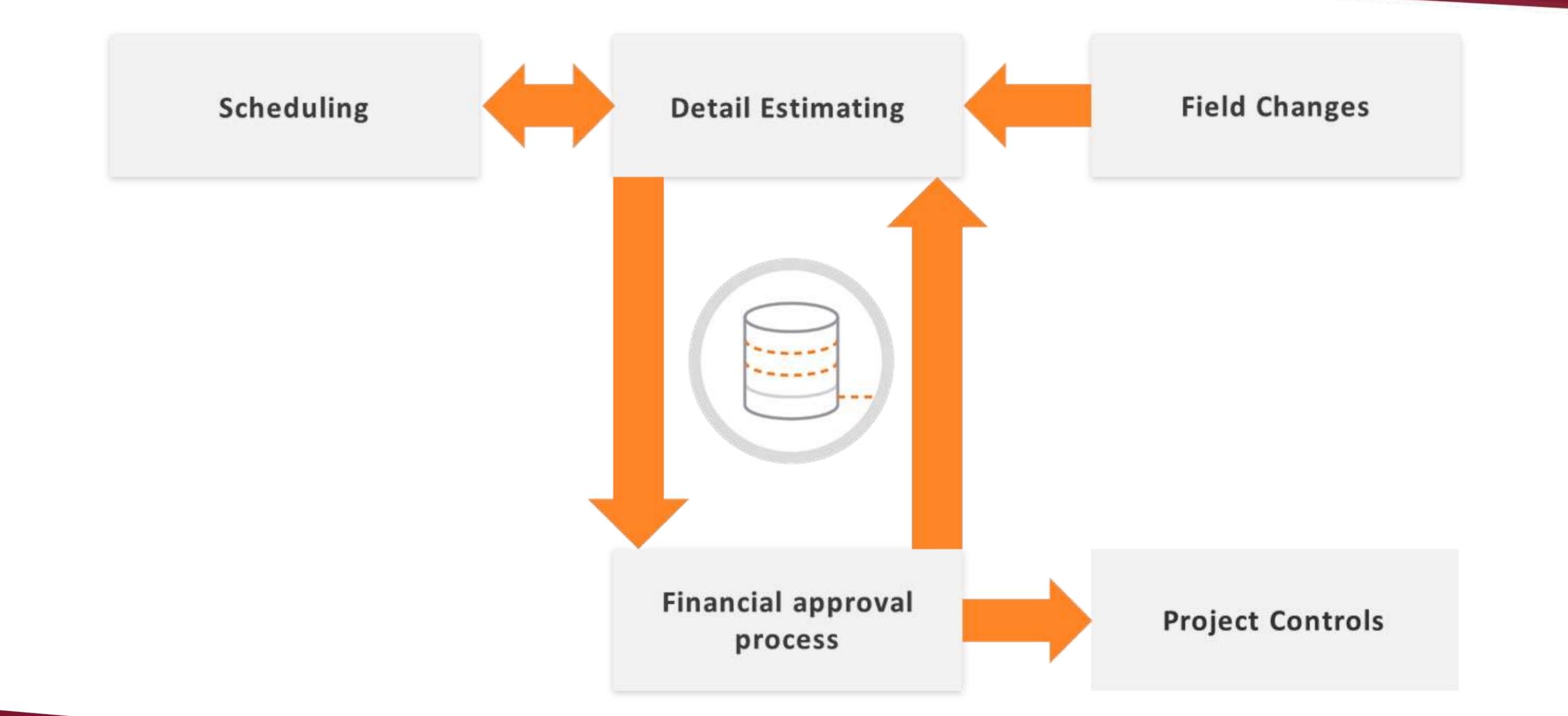








Work Process: Integrated Progress & Cost Control







Digital technologies as a solution? 3 facts.

- Digital technologies, when applied comprehensively and efficiently, can reduce overall project costs by 45%
- 10% increased data accessibility and quality can result in: productivity improvements from 20% 50%
- The technology helped some companies boost maintenance-labour productivity by 30%

Sources

- 1. Navigating the digital future: The disruption of capital projects, Steffen Fuchs, James Nowicke & Gernot Strube, McKinsey
- 2. Measuring the Business Impacts of Effective Data, Barau, Mani & Mukherjee, University of Texas
- 3. Beyond gadgetry: Changing the game in maintenance, Phil Long, Andy Luse & Joël Thibert, McKinsey



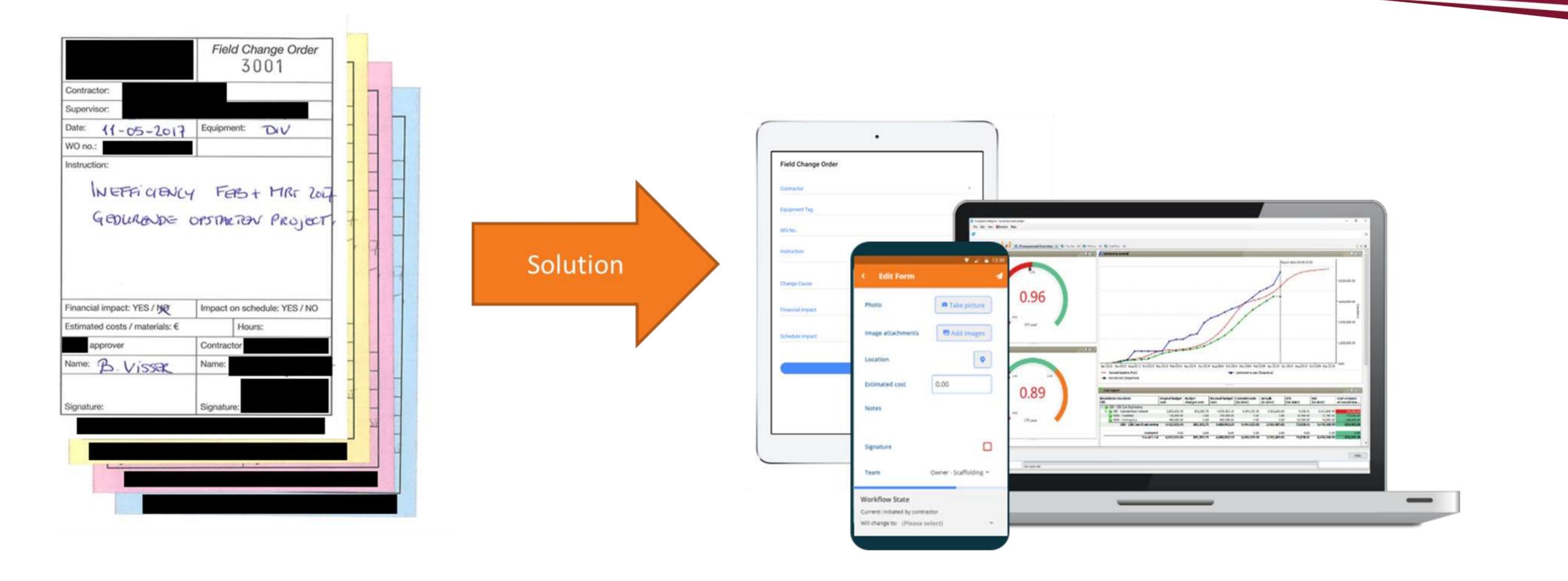


Digital Form Management





Form Tracking Solution
Integrated digital solution
for all form tracking
procedures







Digital Form Tracking



Used to track field changes, internal changes, progress, field quantities



Tailored to any form tracking scenario, project or structure



Form templates can be designed to suit any needs



User permissions can be set to control information shown to end-users



Keep track of the approval process and form status



Bulk approval of forms



Users receive notifications when form is awaiting approval



Compiles all results for detailed analysis



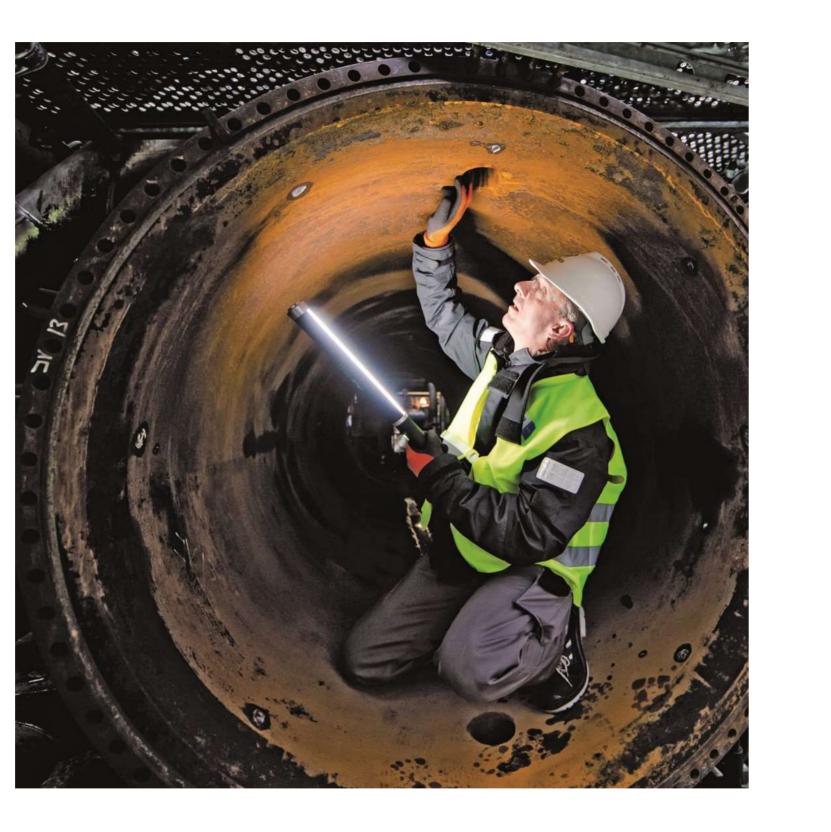
Enables more accurate forecasting





What to track?

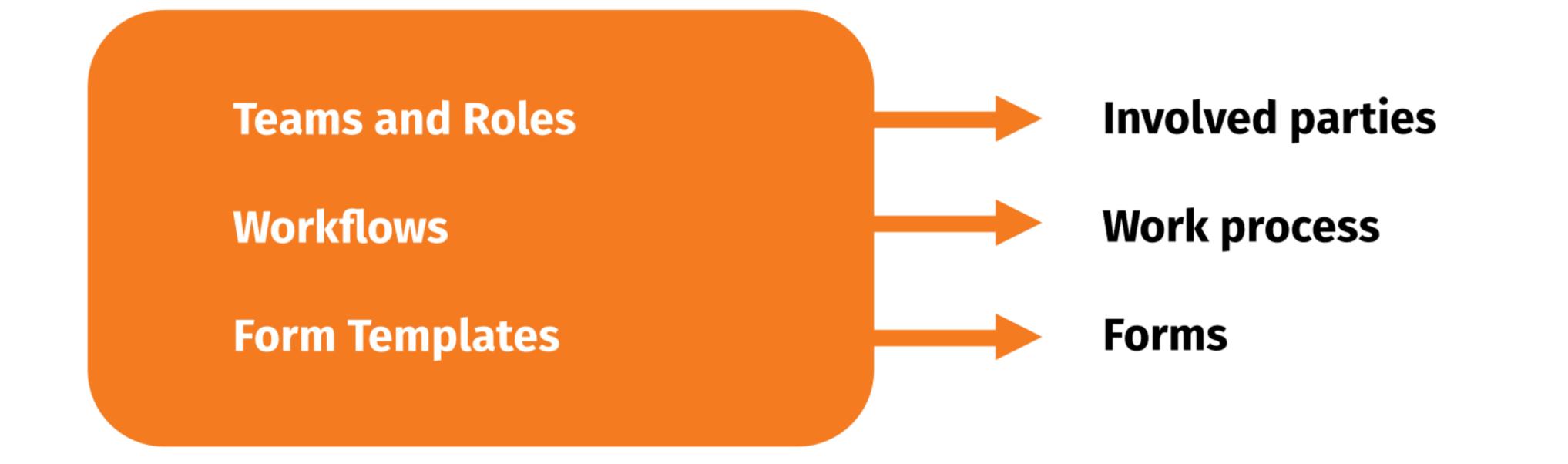
- Field Changes
- Scope Changes
- Project Changes
- Progress
- Field quantities







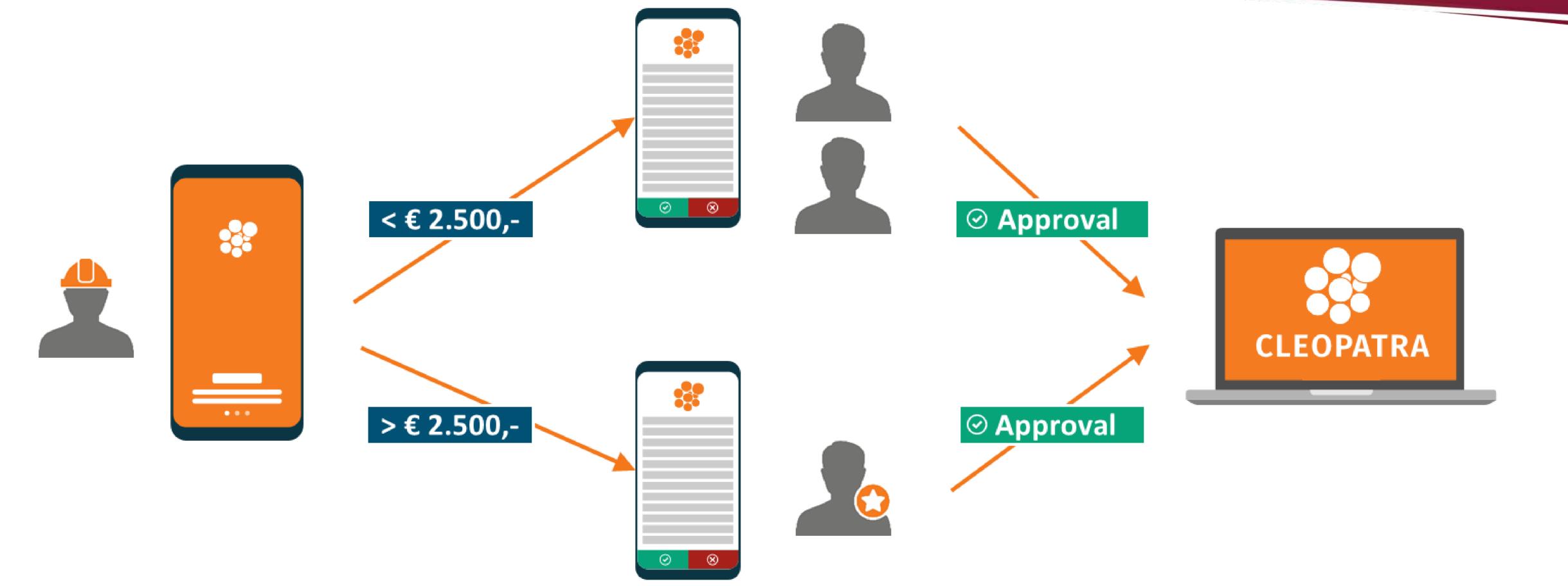
How it works: 3 Pillars







People & Processes



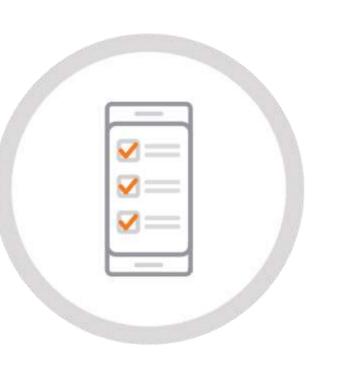
Initiate & Estimate

Approve

Include change in project







Practical Example

Field Change Tracking





Change Tracking

- Clear overview of changes and corresponding impact on project
- Up-to-date project status and finance systems
- Avoiding budget overruns and costly delays
- Increased productivity

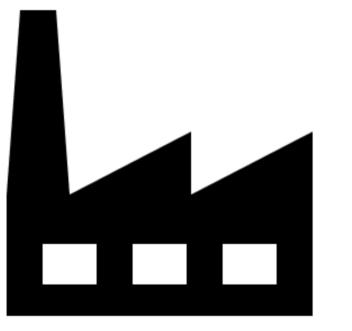






Scenario

Additional work: pump repair



Addition to scope



Field Change Order Form



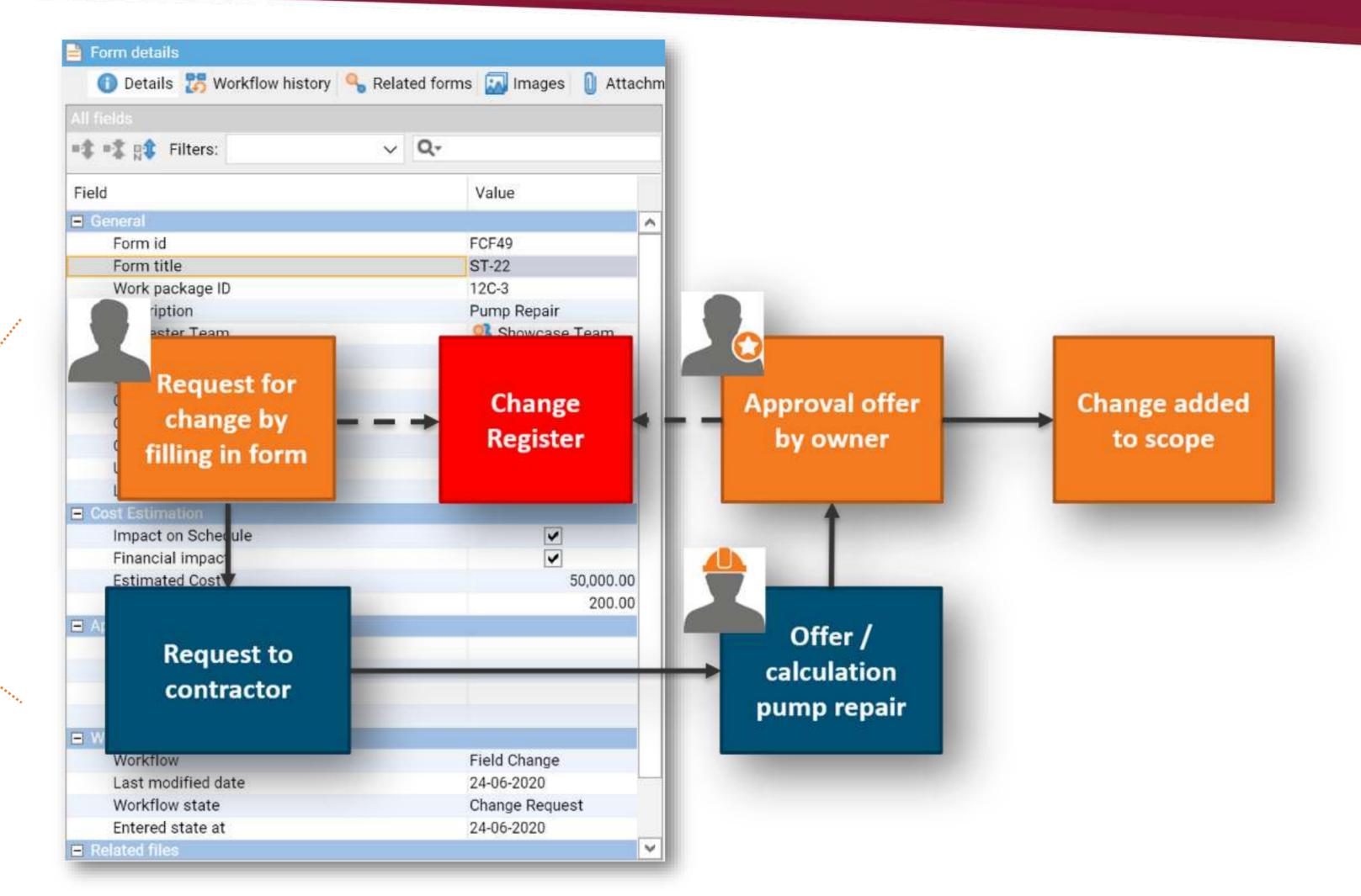


The 3 Pillars

Teams and Roles

Workflows

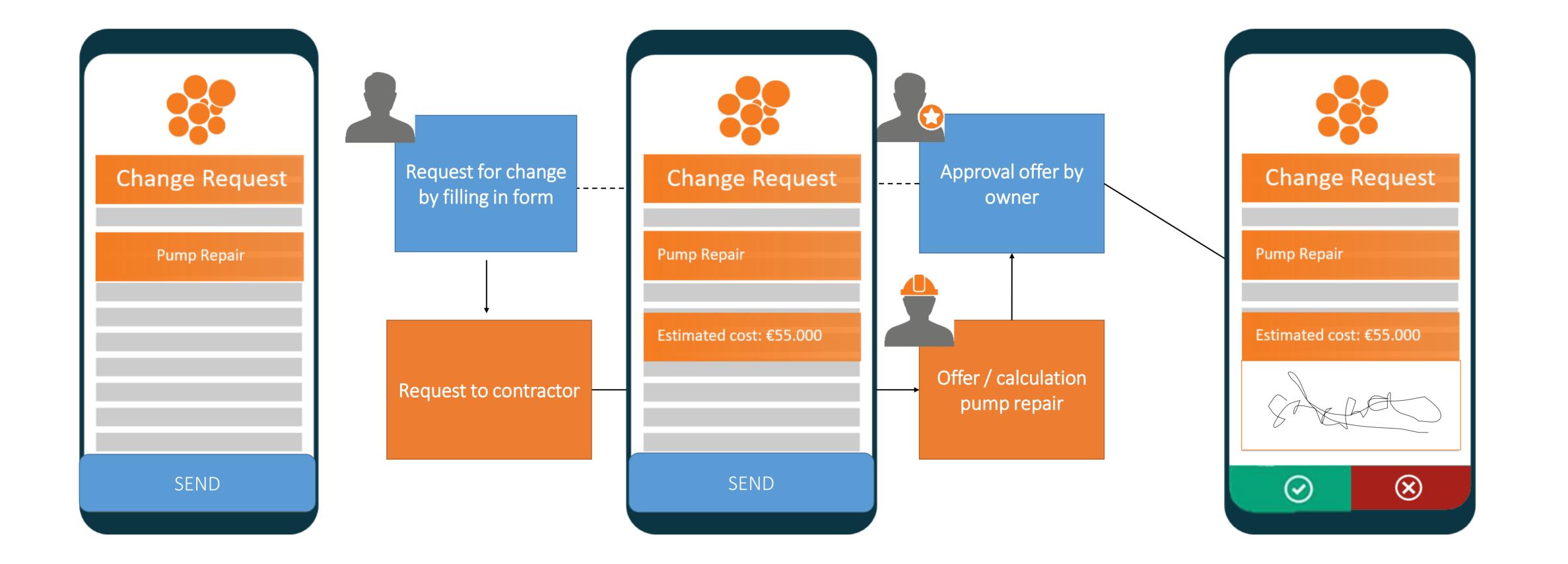
Form Templates







Work Process

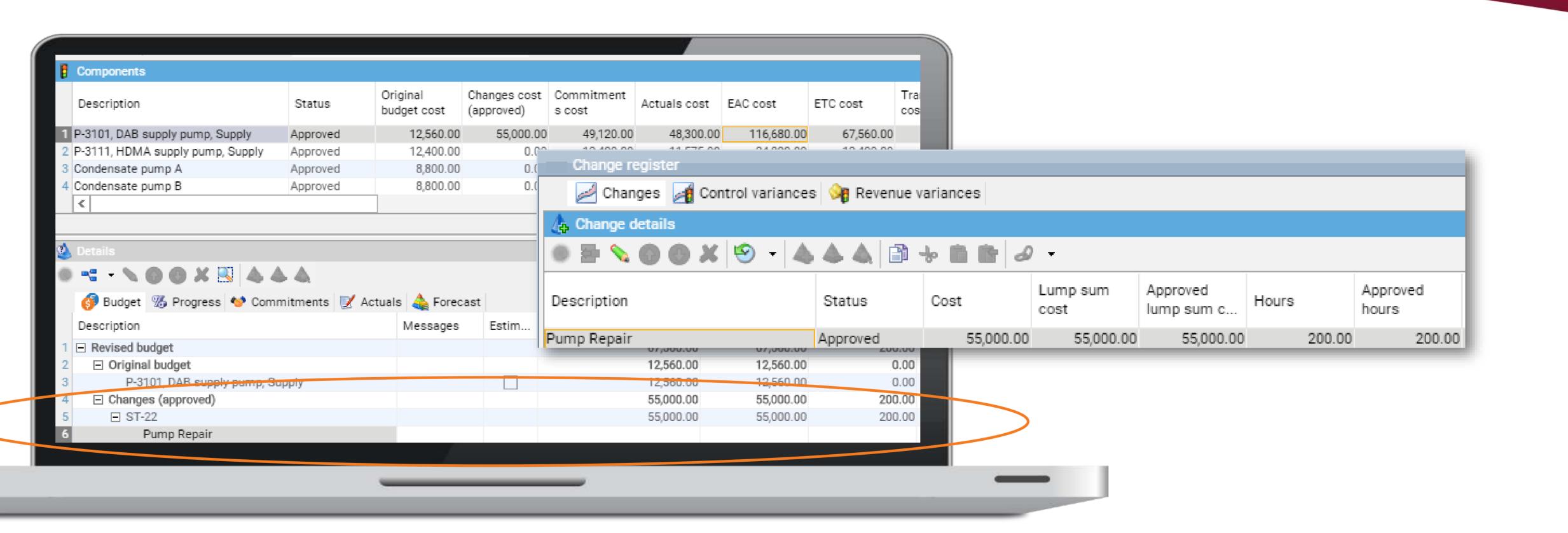






Link with cost management document
Updates automatically your change register

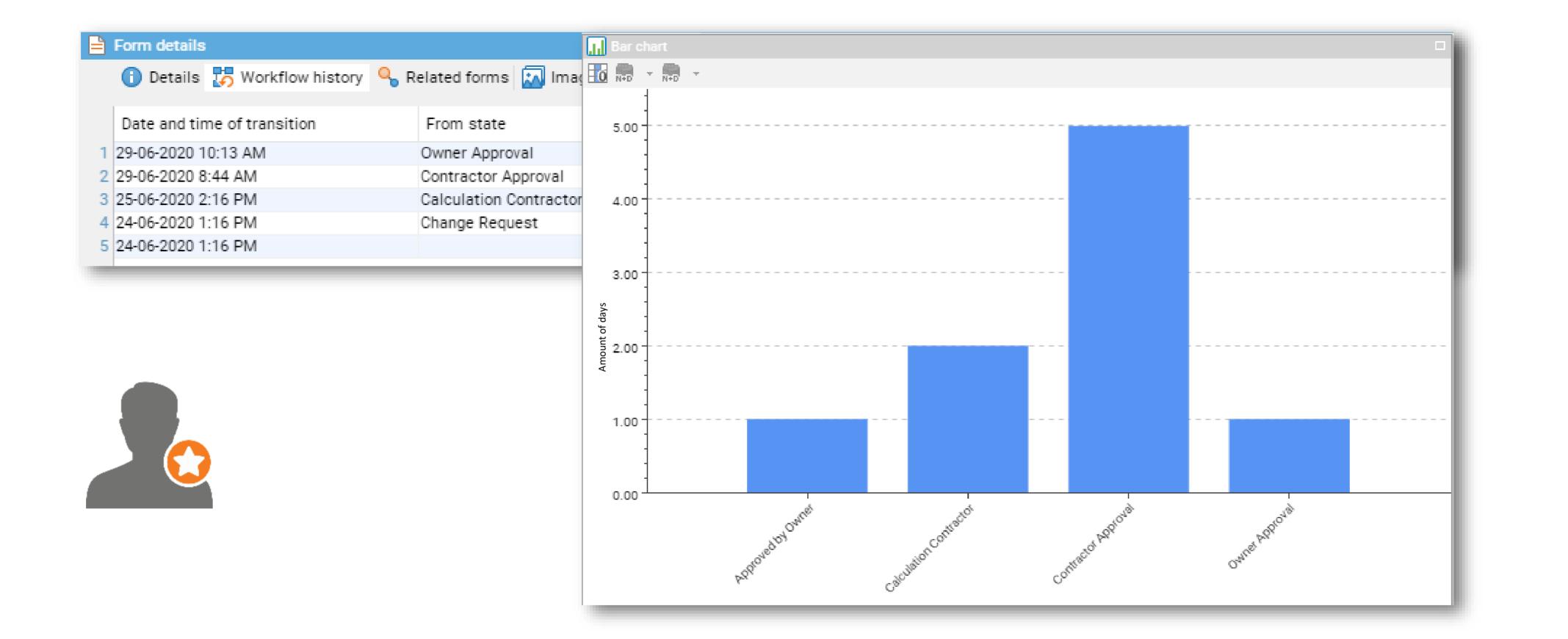








Workflow history



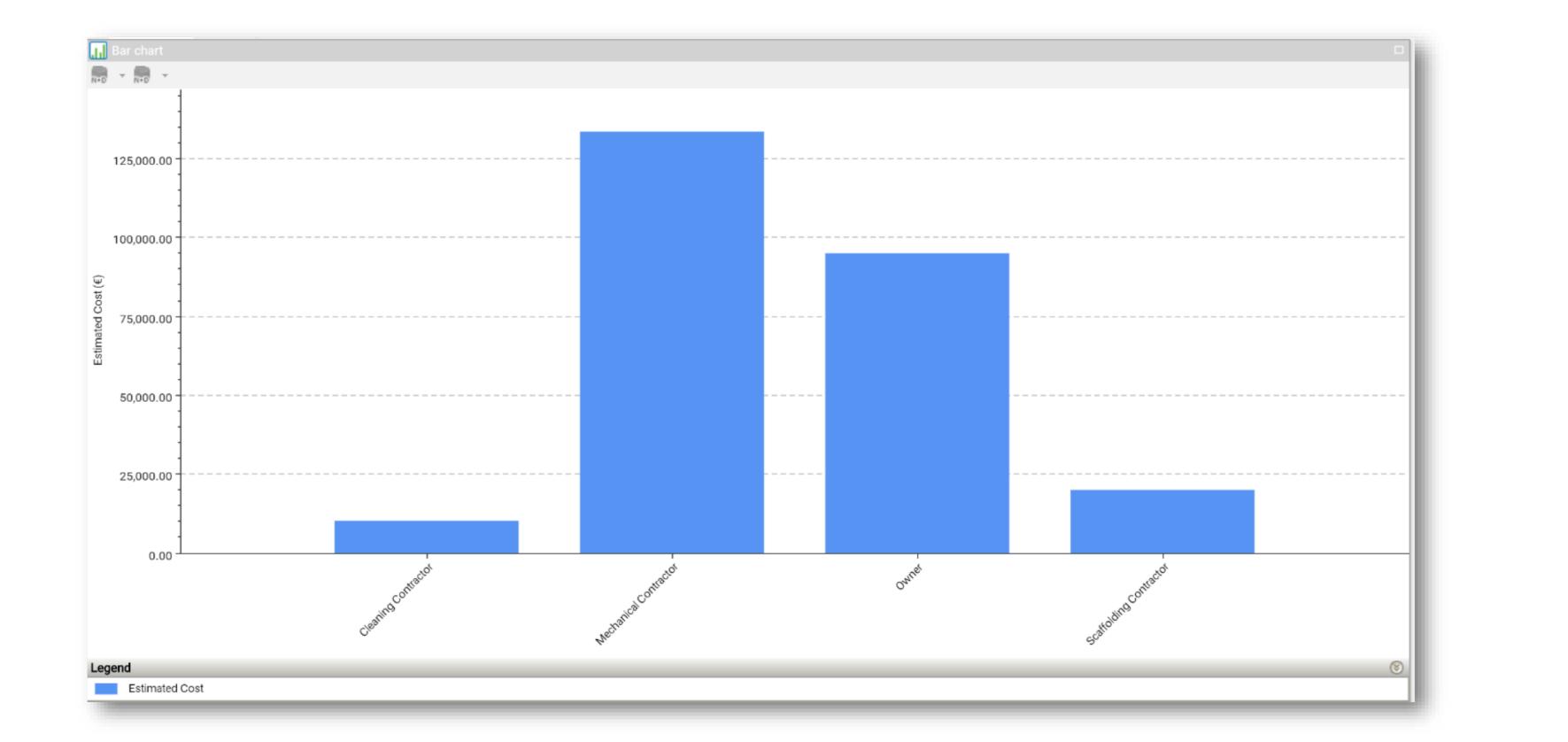




Analysis of the change forms

How many change cost per contractor?





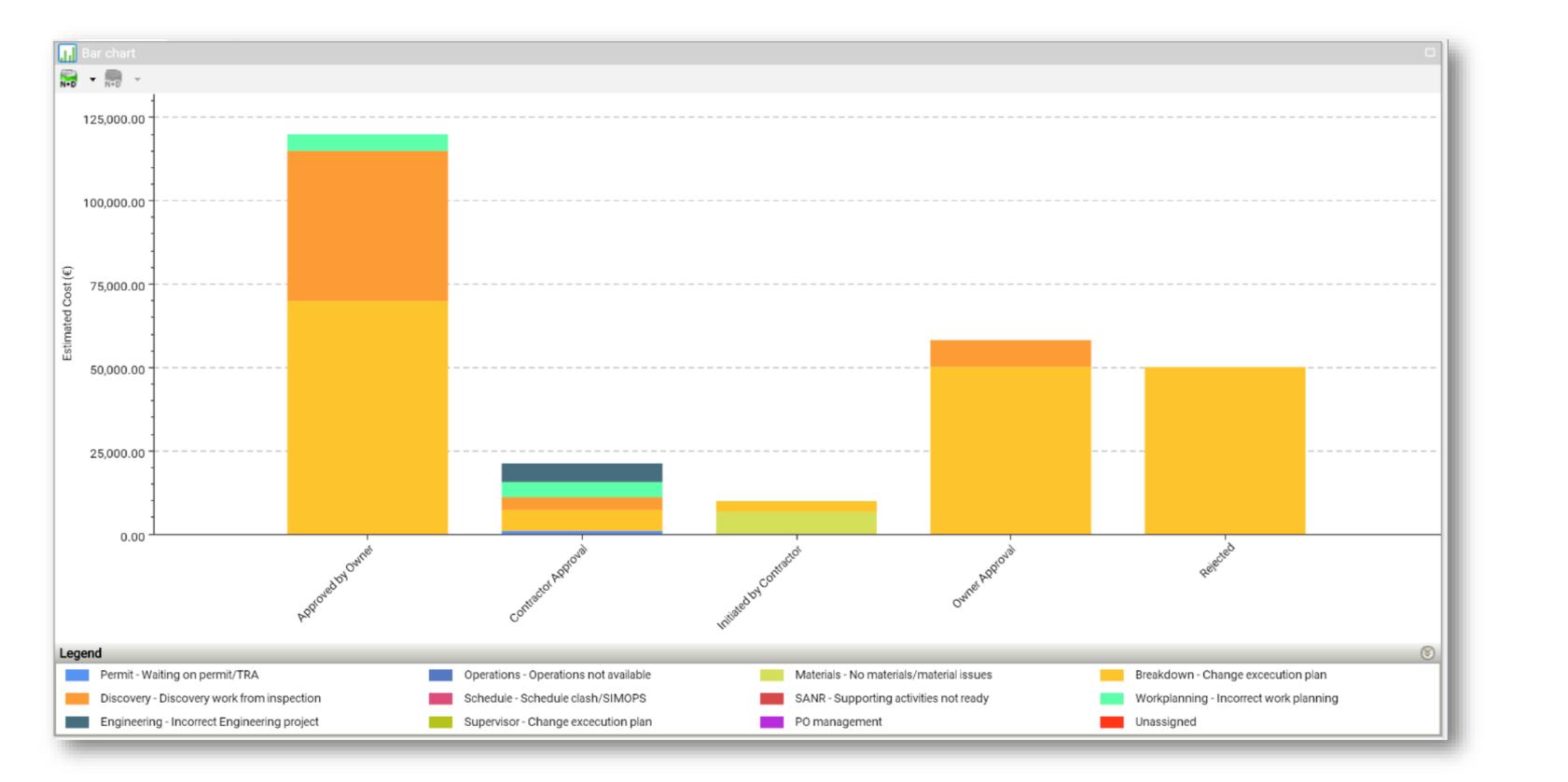




Analysis of the change forms

In which state are my forms? What are the reasons for these changes?



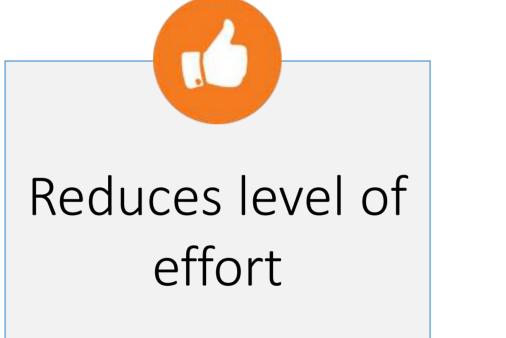




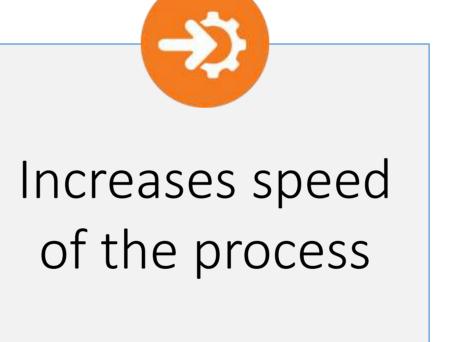


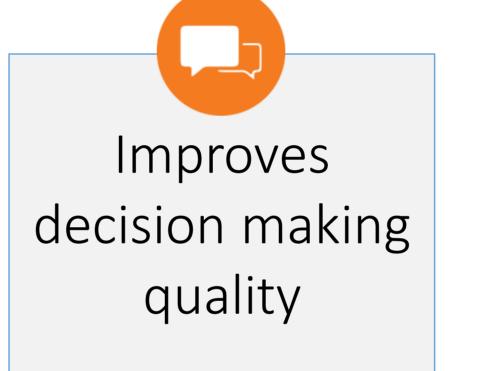
Main takeaways

• Digital tools are key in improving field change management but having the qualified people and right processes in place are part of the solution > 5 benefits of digitalizing field change management











• An integrated, digital way of working leads to more successful field change management





Q&A

DO YOU WANT TO KNOW MORE?

Visit www.costmanagement.eu and schedule a demo

Email me SBakker@costengineering.eu



