Pitch of the Project Proposal

Repairnator

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Software is Everywhere!

Average costs of simple bugs
400 EUR per bug
Benefits

Costs reduced

Productivity increased

Not disrupting the existing flows

Deployed “on the Cloud”

Community-Building Based on Open Innovation

Faster than Humans

www.celticnext.eu  Frédéric Loiret, KTH, loiret@kth.se
Organisation Profile

KTH
Technical University based in Stockholm

CASTOR
Software Research Centre

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Current State of Practise

Development Teams → Code Repositories → Test Suites

Commit → Test

Extensive Manual Work

Failed Reports

100 builds per day?
1000 builds per day?

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A New Approach
Automatic Bug Fixing in the Loop

Development Teams
Code Repositories
Test Suites

Commit
Test
Patches to Upload
Failed Reports

Patches to Review

"Repairnator is AI for CI"

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Proposal Introduction

Technical Outcomes
• Extension of the existing framework with a broad spectrum of bug fixing capabilities in the CI loop
• First TRL 6 prototypes on industrial data set

Community-building
• Open Innovation @Eclipse?

Potential strong business opportunities

36 months project proposal
We are primarily looking for large end-users willing to experiment our approach on their industrial software development processes.
For more information and for interest to participate please contact:

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www.castor.kth.se
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Presentation available via: