



T-REX

INNOVATIVE STRATEGIES FOR RENOVATION AND REPAIR IN MANUFACTURING SYSTEMS



T-REX has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement n° 609005

START DATE: 1 OCTOBER 2013
DURATION: 36 MONTHS
TOTAL BUDGET: € 5.1 MILLION
FUNDING: € 3.6 MILLION

PROJECT OVERVIEW

T-REX promotes integrated product-service solutions or product-service systems that allow a shift from value in exchange to value in use to satisfy customer needs. The transition, in the capital goods industries, from the "traditional" business models to the "new" business model has been supported with:

A new **Service-Oriented Business Model** reference framework

An improved design of the products by the adoption of the **Design -for-X** approach

The re-engineering of traditional support services by using **Service Engineering** techniques

Condition based Maintenance technologies and a **Fleet Management** platform for the increasing of product availability and the reducing of the Total Cost of Ownership

EXPECTED IMPACT

Three practical demonstrators will show through the new business platform that it is possible to create new business models that can achieve up to 70% of component re-use, a lifecycle extension in the range of 25-30%, and a reduction of maintenance service costs by 15-30%, which can be translated into 25 to 30% of savings on Total Cost of Ownership.

MAIN TARGET MARKETS

Machine tools



Transportation



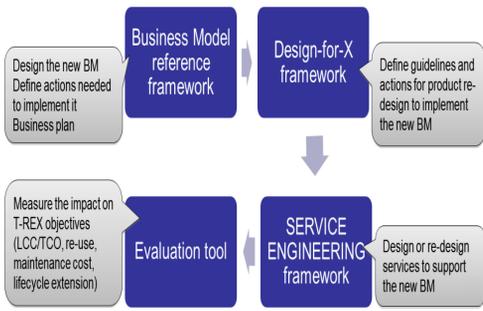
Robotic Systems



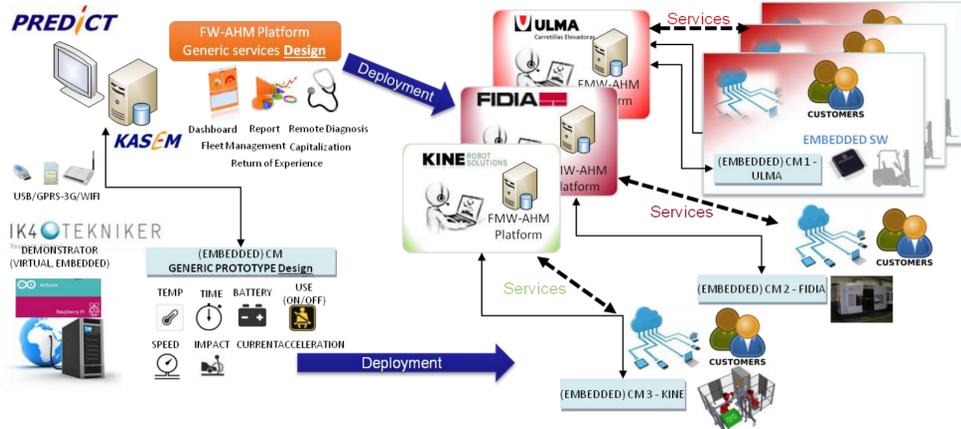
EXPLOITABLE RESULTS

Main project results have been characterized from a holistic approach taking advantages of the synergies between technological and industrial partners to set up five Global Key Exploitable Results named KER G1 to G5.

KER G1: "An integrated methodology and toolset for supporting your company towards a new service-oriented business model"



KER G2: "T-REX platform for an easy and fast deployment of Continuous Monitoring (CM) and Predictive Maintenance (PdM) technologies within fleet and asset management"



KER G3: "A new integrated Service platform that provides essential information for fleet management, cost reductions and environmental/security improvements"

KER G4: "Service solution of Condition Based Maintenance (CBM) for new generation machine tool electro-spindles"

KER G5: "Integrated platform for Condition Based Maintenance (CBM) of Robot Cells"

