



GUIDANCE NEEDED: AI DEPLOYMENT CHALLENGES



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INTRODUCTION

WHO AM I? (AND WHY I AM TALKING ABOUT AI CHALLENGES 😊)



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DELIVERY EXCELLENCE PMT LEAD

- INTACS® CERTIFIED COMPETENT ASSESSOR AUTOMOTIVE SPICE INCL. MACHINE LEARNING EXTENSION
- MEMBER OF WORKING GROUP SPICE4AI

AI-DRIVEN PMT

“AI-powered and seamless integrated PMT landscape compliant with industry relevant standards & regulations”

AI-DRIVEN PMT (1/2)

Enhancement of standard PMT landscape with AI

Quality



- ASPICE

Compliance



- Functional Safety
- Cybersecurity
- Open Source

Methodology



- Process Assets
- Toolchain

AI



- AI Agents
- Agentic AI

AI-DRIVEN PMT (2/2)

Requirements & Test Specs Authoring ●

DD & Source Code Generation ●

Documentation Creation ●



● AI-Driven Reviews & Analysis

● Chatbots

AI-Generated Work Products

AI-Augmented Development



IN SCOPE

NOT IN SCOPE

**EXAMPLES
(NON-EXHAUSTIVE)**



● ADAS/AD

● Predictive Maintenance

AI-Enabled Products

CHALLENGES



DISCLAIMER

The next slides are solely based on our experience in several AI initiatives

“BUT I STILL HAVEN’T FOUND WHAT I AM LOOKING FOR”



PROBLEM STATEMENT

Lack of concrete policies for selecting, deploying and controlling AI solutions



CHALLENGES

Lack of selection criteria and validation methods for AI solutions



GUIDANCE NEEDED

Concrete (and, if possible, empirical) industry best practices on how to properly select, deploy and further control AI solutions

Our “unfiltered” two cents

- STRUGGLED TO IDENTIFY WHERE TO LOOK FOR DETAILED INFORMATION (AND WHEN FOUND, SUPERFICIAL)
- PROPRIETARY METHODOLOGY (IS IT ACCEPTABLE? WHO KNOWS 😊)
- ISO/IEC 5338:2023 IS (SO FAR) THE MOST SUITED REFERENCE FOR THE USE CASE

“AI HERE, AI THERE.. AI EVERYWHERE!”



PROBLEM STATEMENT

Unclear which project-specific activities are currently better suited to be performed using AI (*so...let's try with ALL*)



CHALLENGES

No established (or publicly accepted) AI solutions benchmark



GUIDANCE NEEDED

Industry benchmark explicitly covering which activities could be performed/enhanced with which AI solution

Our “unfiltered” two cents

- DECISION (TYPICALLY) BASED ON:
 - BUSINESS PRIORITIES (MAPPED TO “EFFICIENCY GAINS”)
 - “SOME” DEGREE OF REASONING (REALLY NEED AI-BOOSTING?)
- REQUIREMENTS AND TESTING ACTIVITIES HAVE “PROMISING” RESULTS; STRUGGLING WITH DESIGN ACTIVITIES; MIX FEELINGS REGARDING MGMT. AND SUPPORTING ONES

SURFING THE AI TSUNAMI



PROBLEM STATEMENT

New needed skills and competencies are not systematically available neither are trivially acquired



CHALLENGES

Overwhelming number of standards, tools, information, etc. renders upskilling extremely burdensome



GUIDANCE NEEDED

Industry harmonized AI (and/or “AI-impacted”) roles with clearly defined skillsets

Our “unfiltered” two cents

- QUALIFICATION OF PERSONAL IS A MUST; DON'T UNDERESTIMATE IT (BOTH IN IMPORTANCE AND EFFORT)
- NARROW DOWN AI TOOLS OPTIONS
- INDUSTRY-DRIVEN TRAINING MATERIALS WOULD BE GREAT

MANAGING “MANAGEMENT”



PROBLEM STATEMENT

Pressure to use AI: Everyone, Everywhere, for Everything 😊



CHALLENGES

Uncoordinated, incomplete and/or incompatible AI solutions



GUIDANCE NEEDED

“Not sure if we want to tell ‘management’ what to do” 😊

Our “unfiltered” two cents

- GOVERNANCE IS CRITICAL (ENTROPY CONTROL)
- AVOID SCATTERED INVESTMENTS (I.E., SUB-OPTIMAL RETURNS)

CONCLUSION

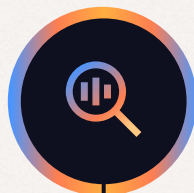
CARVING OUR OWN WAY

AI-DRIVEN PMT

AI Governance



AI Solutioning Strategy



AI Deployment



AI Validation



AI Standardization



- Holistic Solution
- AI R&Rs, including risk-based decision board

- Clear AI Problem Definition
- Selection Criteria & Make-Buy Analysis

- Empower experimentation while containing chaos
- Iterative controlled pilots, with scaling in mind

- Validation Criteria & Methods
- Promotion of successful stories → AI Asset Management

- Monitoring of further adoption
- Control & Change Management

Q&A



can SPICE4AI and/or AK13 WGs guide us? 😊



LUXOFT