****Agenda: Workshop for solution development****

This one-day workshop is intended to run after the workshop for **understanding technical debt**. It builds upon the previous workshop and investigations, moving the team from understanding the problem into identifying, developing, and evaluating potential solutions.

The primary goal of the workshop is to identify and agree to pilot **at** **least one intervention** that will lead to a reduction in technical debt problems.

# Agenda

* Recap & update (105 minutes)
  + Causes of technical debt (30 minutes)
  + Findings from 1st workshop & further investigations (30 minutes)
  + Summary of analysis (15 minutes)
  + Addressing existing debt vs avoiding new debt (15 minutes)
  + Simulation update, if applicable (15 minutes)
* BREAK (15 minutes)
* Explore 1st candidate intervention (90 minutes)
  + Select candidate intervention (15 minutes)
  + Facilitated discussion and activities (60 minutes)
  + Useful workshop techniques (15 minutes)
* LUNCH (60 minutes)
* Explore 2nd candidate intervention (90 minutes)
* BREAK (15 minutes)
* Explore 3rd candidate intervention (90 minutes)
* Summary and Next Steps (15 minutes)

# Recap & update

In this session, we give workshop attendees a recap of the major points from the problem understanding workshop. We also update attendees with the findings from that workshop and further investigations, plus a summary of our analysis. We finish the session by considering the alternative approaches of addressing existing debt or avoiding creating new debt, then show any updates to the simulation models, if applicable.

## Causes of technical debt

We begin by revisiting the technical debt onion. We look at technical debt as a trade-off problem, then as a systems problem, and economics problem, and a wicked problem. We also briefly look at anti-patterns and causal loop diagrams.

## Findings from 1st workshop & further investigations

We begin by summarising the findings from the first workshop and further investigations. We then briefly discuss which findings or topics are likely to be the most important/fruitful and should consider investigating further in later sessions.

## Summary of analysis

We summarise our analysis into the technical debt problem, including tentative identifications of the major drivers of technical debt within this organisation.

## Addressing existing debt vs avoiding new debt

We learn of two approaches to reducing technical debt: reducing existing debt, or avoiding creation of new debt. We explore the benefits and limitations of each approach and conclude that we must have a balanced approach, addressing both.

## Simulation update, if applicable

We present and explore any updates to the simulation models demonstrated in the problem understanding workshop, plus we present any newly created models.

# Explore 1st candidate intervention

In this session, we explore the first candidate intervention. First, we select the intervention from a candidate list. We then engage in a facilitated discussion. At an appropriate point, we explore useful workshop techniques.

## Select candidate intervention

We briefly walk through the list of candidate interventions that we have previously identified, then select one intervention to investigate further

## Facilitated discussion and activities

We engage in a facilitated discussion, with the aim of developing an intervention to address an aspect of technical debt.

## Useful workshop techniques

We explore one or more workshop techniques, aimed at helping our facilitated discussion.

# Explore 2nd & 3rd candidate interventions

In these sessions, we explore the second and third candidate interventions in the same way we explored the first candidate intervention.

# Summary and Next Steps

We finish the workshop with a summary of our new understanding and the main points from each of the three candidate interventions. Also, we will identify and agree at least one candidate intervention to take into the pilot stage.