

Team Project: A Surveillant Robot System

Status Report : 04/12/2005

Little Red Team

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Agenda

- Team meeting & Problem
- Progress report

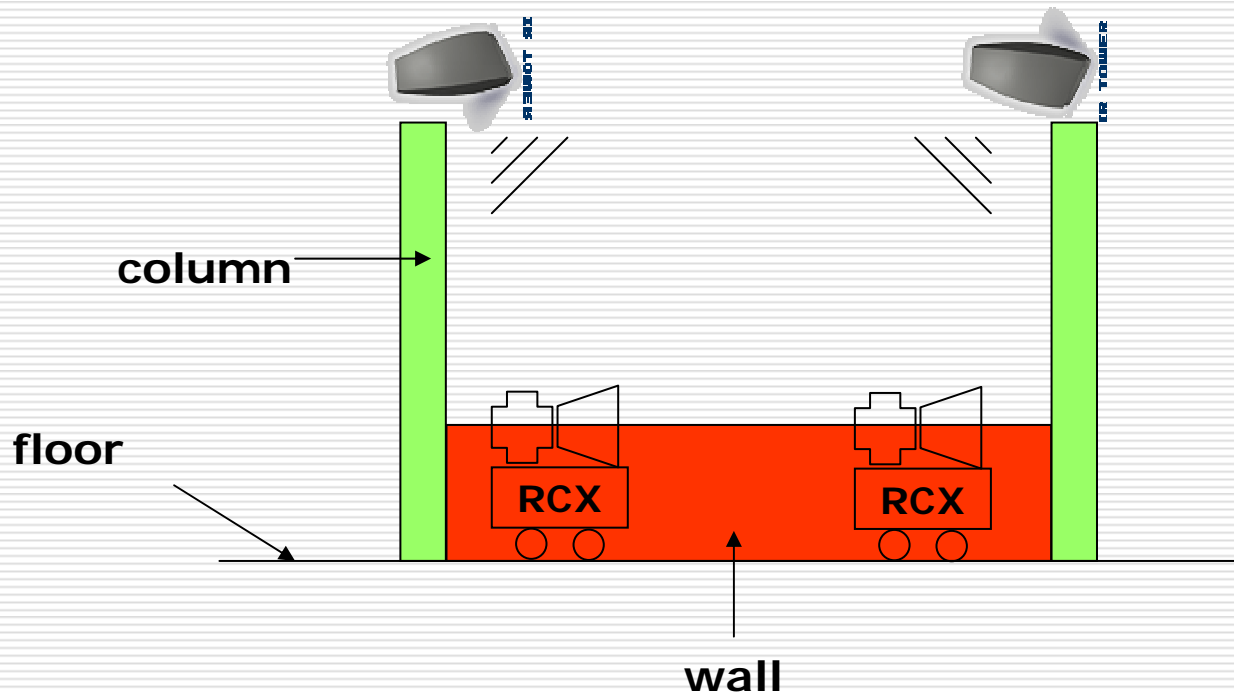


Team meeting

- We talked about IR tower.
- Each robot has each IR tower. If the main controller send a command to one robot only, however, two robot concurrently response the command. This is because IR signal and command does not ID to differentiate two main controller. Thus, we decide to include ID into signal.
 - Original objective of IR tower is to download program into RCX.
 - In our case, additional objective is to use signal as a tool to transmit command.
- Time goes by, physical problems is occurred rather than software problem.
- IR tower and IR signal is very sensitive to the direction. If a robot is positioned to opposite side of IR tower, robot can't receive the signal.



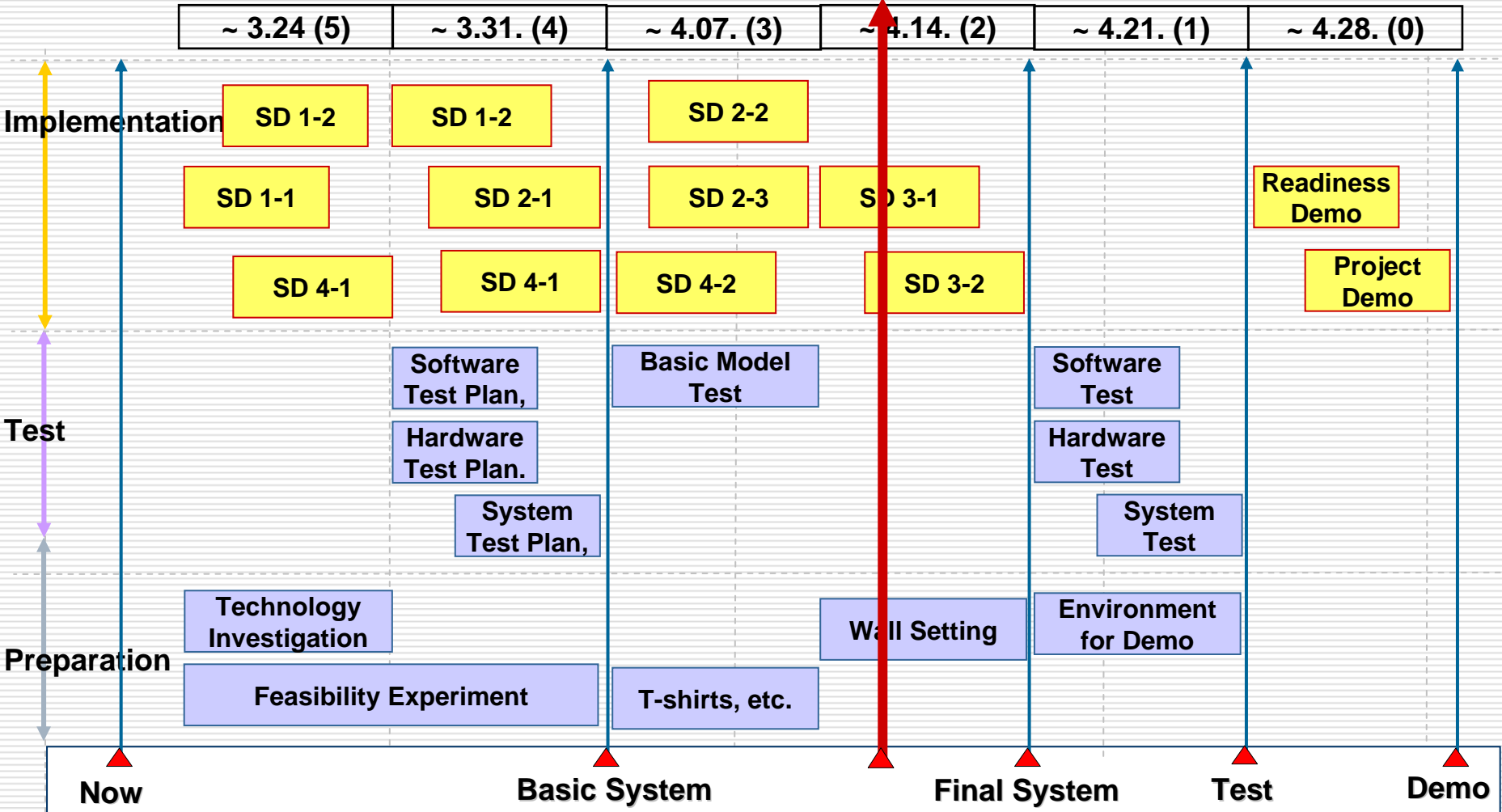
IR Tower Problem



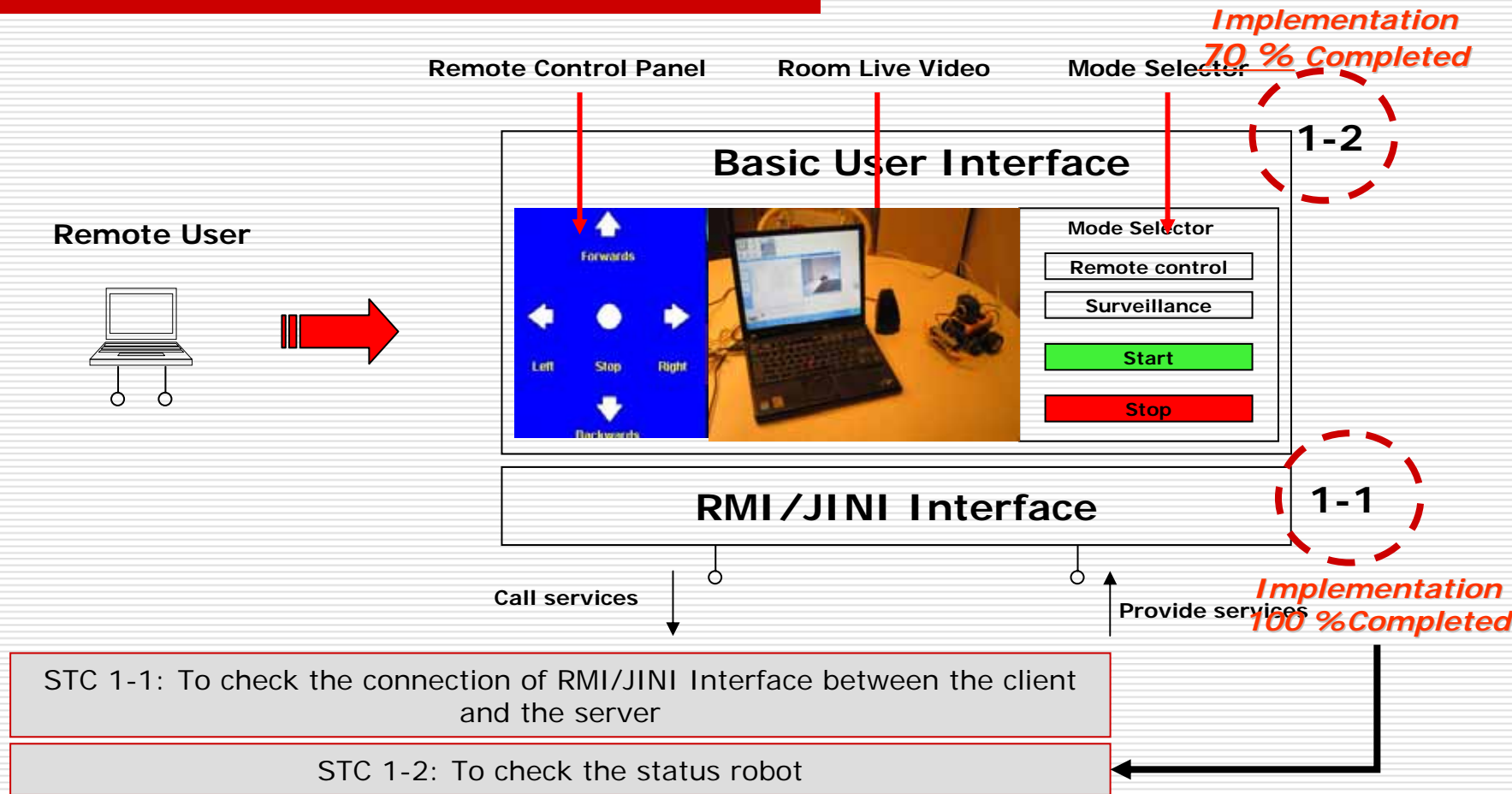
- ❑ The solution is to install two column or similar facility.
- ❑ RCX can increase the probability to receive signals from the IR



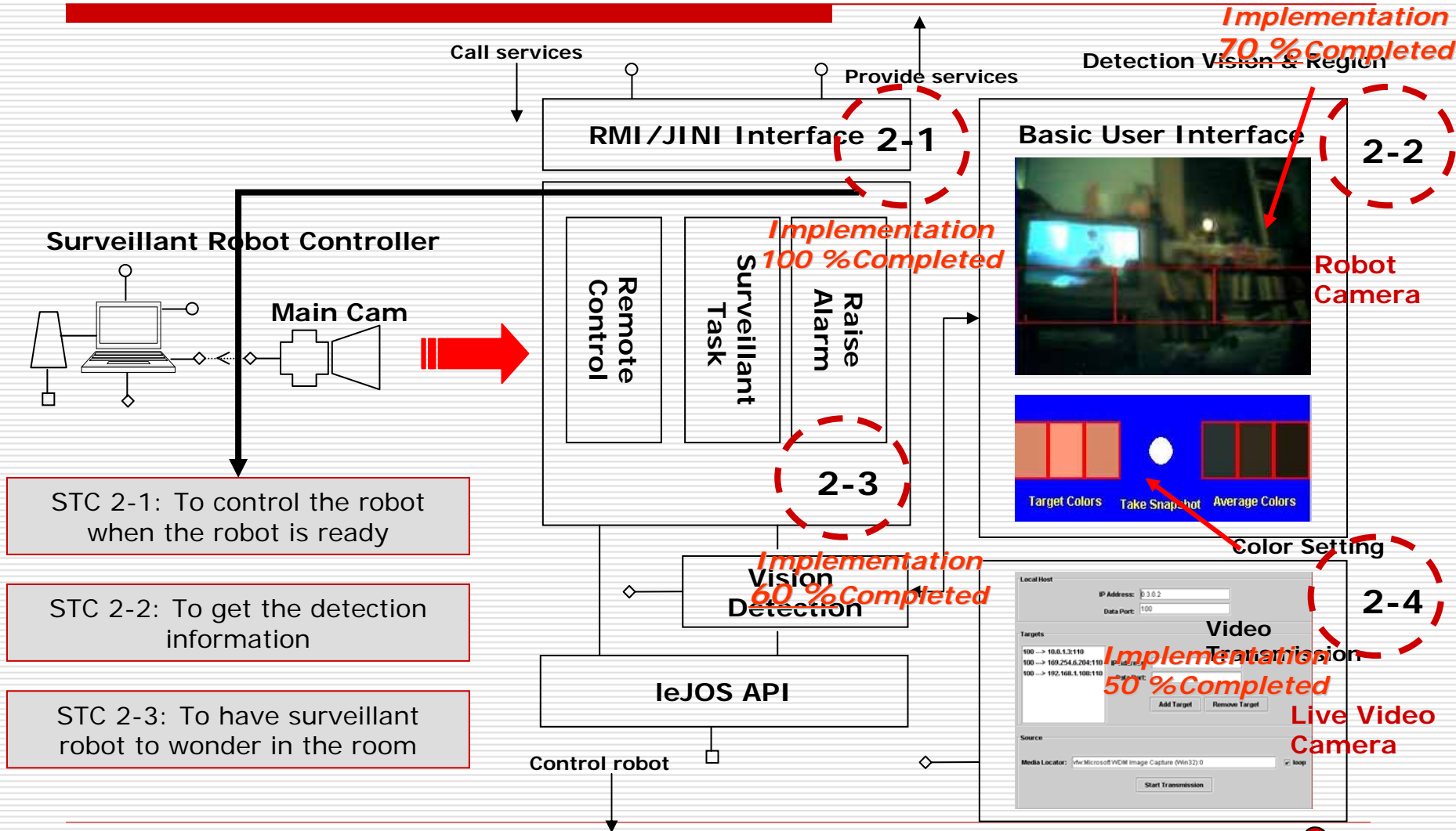
Task Plan



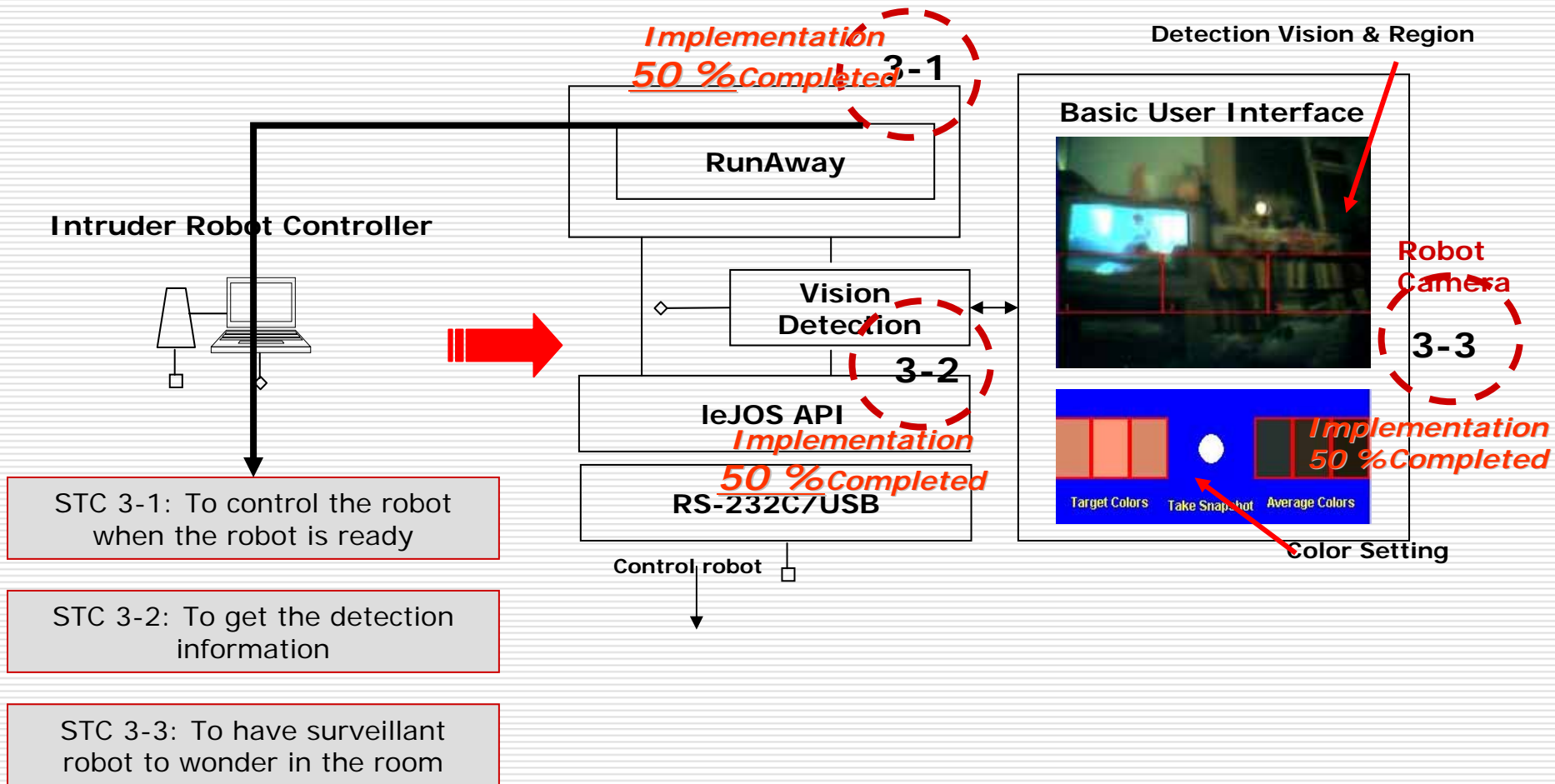
Software Design – SD#1



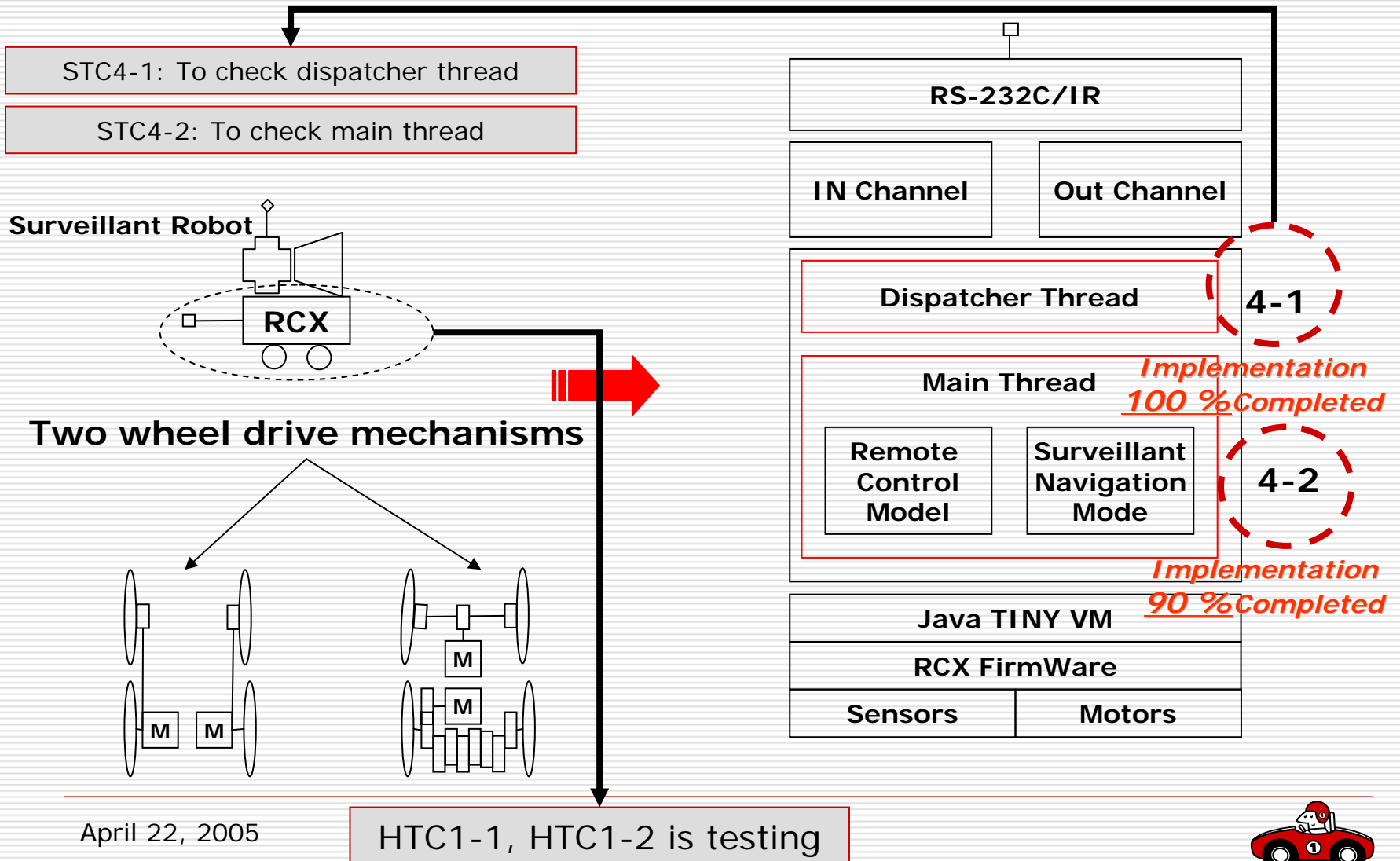
Software Design – SD#2



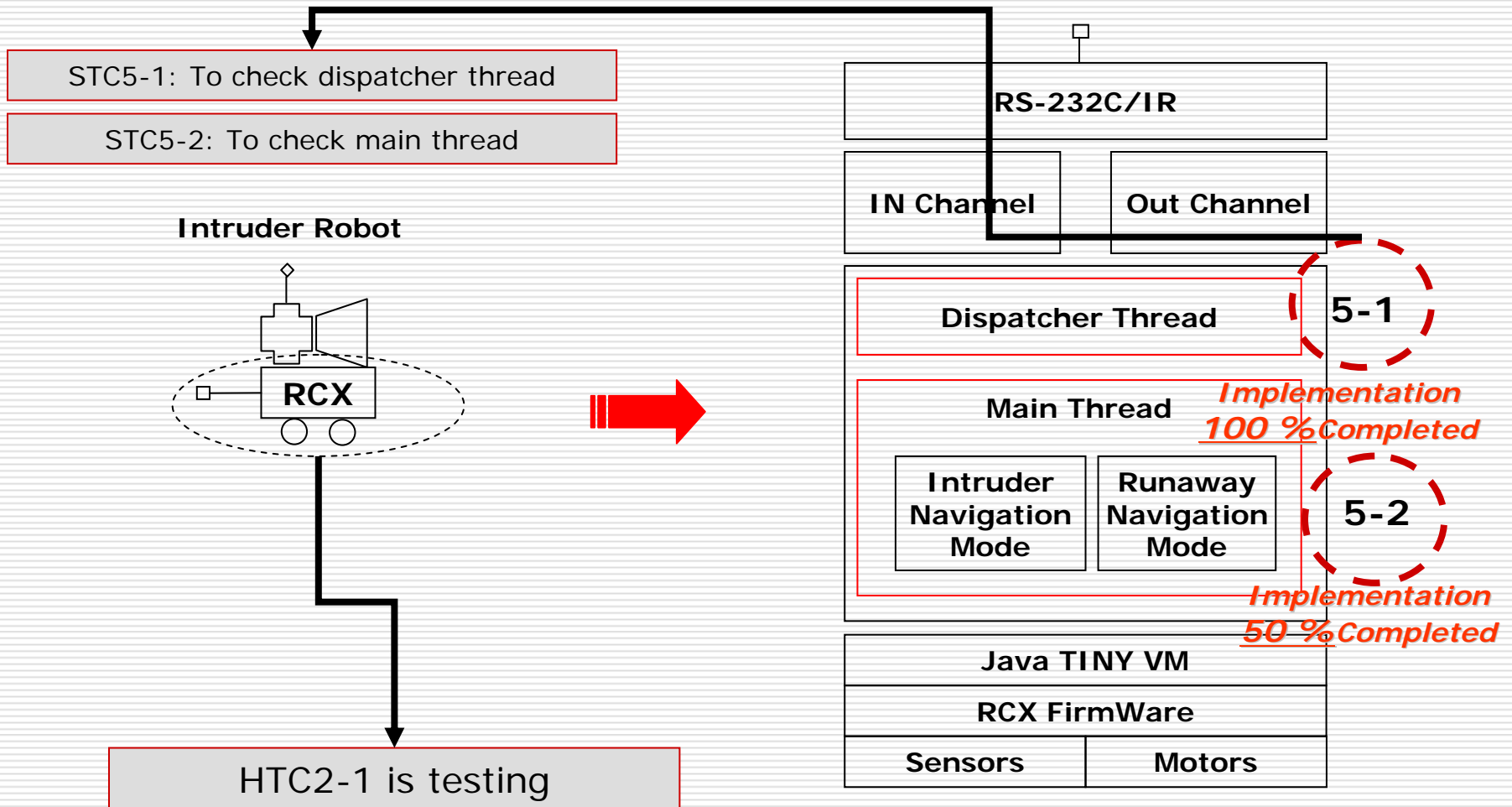
Software Design – SD#3



Software Design – SD#4



Software Design – SD#5



Progress status

- ❑ Actual vs plan : 80% of the whole system is completed and tested.
- ❑ this week, we will start to integration test between all software and hardware.

