Team Project:
A Surveillant Robot System

SW & HW Test Results : 04/21/2005

Little Red Team

Chankyu Park (Michel)

Seonah Lee (Sarah)
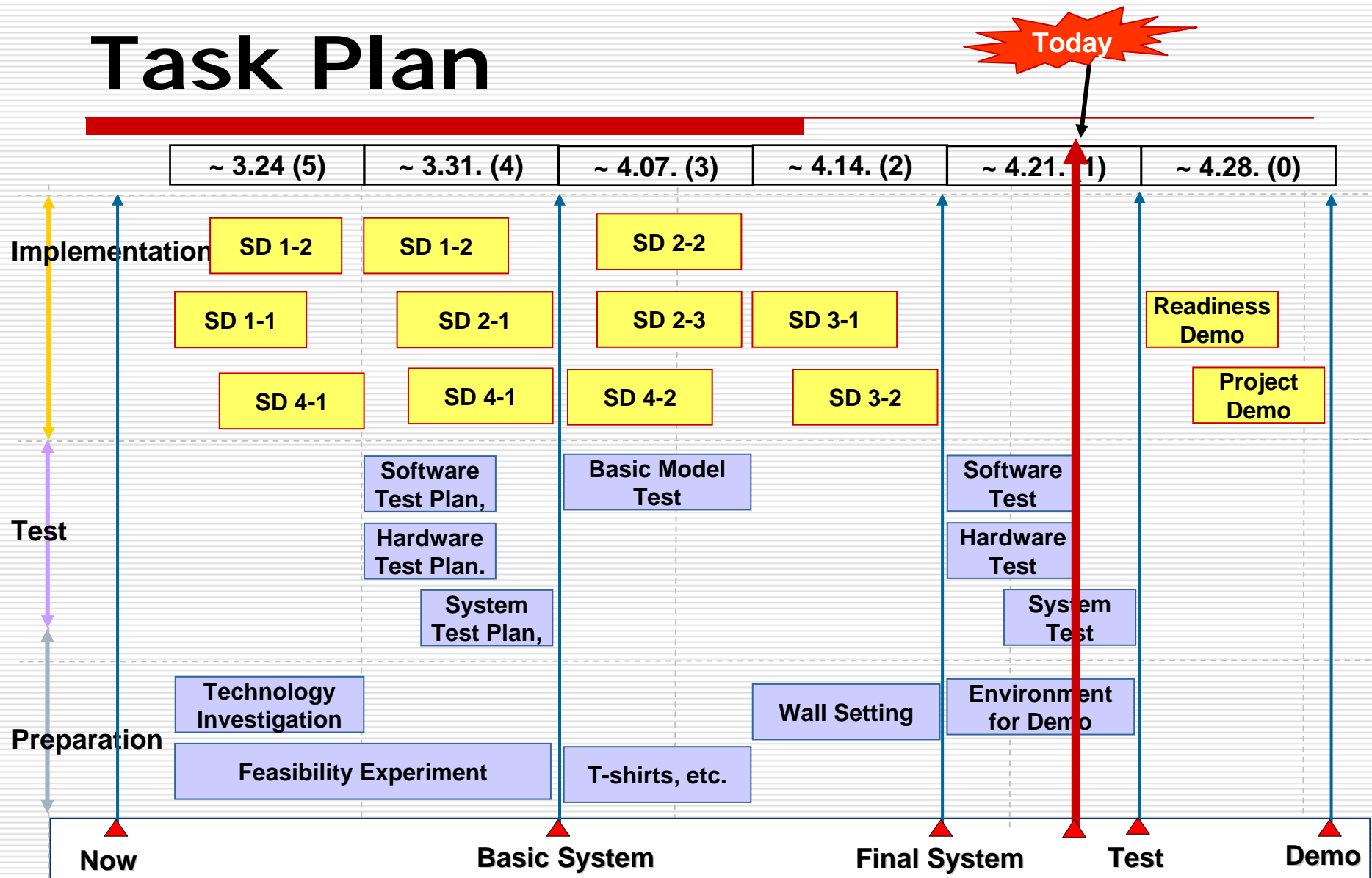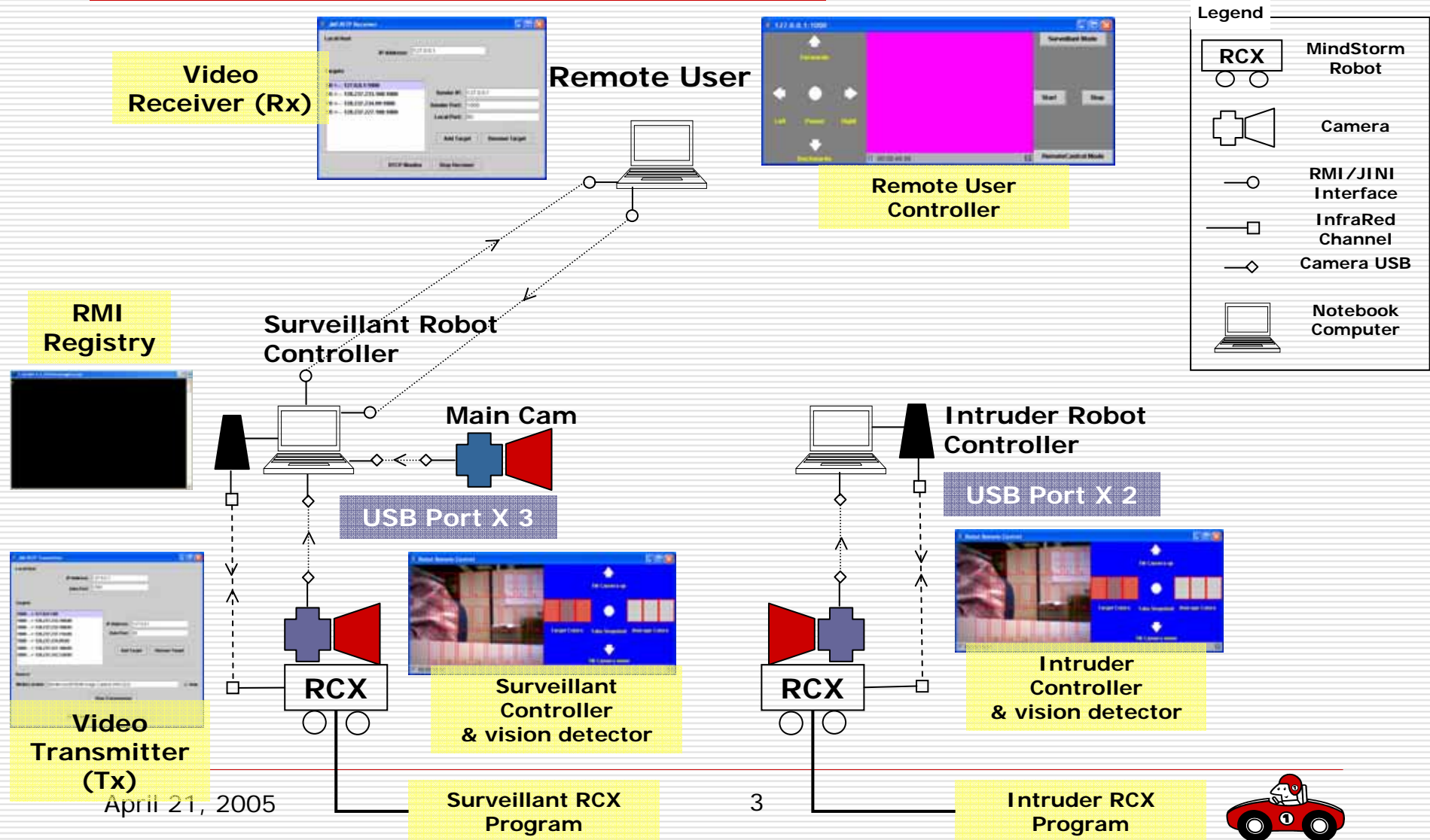
Qingyuan Shi (Lisa)

Chengzhou Li

JunMei Li

Kai Lin

Task Plan

~ 3.24 (5)	~ 3.31. (4)	~ 4.07. (3)	~ 4.14. (2)	~ 4.21. (1)	~ 4.28. (0)

Today

Implementation

SD 1-2 | SD 1-2 | SD 2-2

SD 1-1 | SD 2-1 | SD 2-3 | SD 3-1 | Readiness Demo

SD 4-1 | SD 4-1 | SD 4-2 | SD 3-2 | Project Demo

Test

Software Test Plan, | Basic Model Test | Software Test

Hardware Test Plan. | Hardware Test

System Test Plan, | System Test

Preparation

Technology Investigation | Environment for Demo

Wall Setting

Feasibility Experiment | T-shirts, etc.

Now | **Basic System** | **Final System** | **Test** | **Demo**

Demo Environment

Video Receiver (Rx)

Remote User

Remote User Controller

Legend

RCX	MindStorm Robot
	Camera
—○	RMI/JINI Interface
—□	InfraRed Channel
—◇	Camera USB
	Notebook Computer

RMI Registry

Surveillant Robot Controller

Main Cam

Intruder Robot Controller

USB Port X 3

USB Port X 2

Video Transmitter (Tx)

RCX

Surveillant Controller & vision detector

RCX

Intruder Controller & vision detector

Surveillant RCX Program

3

Intruder RCX Program

Problems

- Most test cases are tested
  - But, Whole integration test should be needed for demonstration
  - Intruder robot behavior is not yet tested
  - Color detection is tested but, it depends on surroundings as well as light sensor
  - IR Tower's sensitivity is very low. This problem is not solved. This is hardware constraint.
  - When we do integration test, some problems happened.
    - Deployment test to other computer has failed. Need to be solved.
    - Each computer has different properties.

Plan

- ☐ Next Plan
  - ■ Demo scenario preparation for Demonstration
  - ■ Demo environment building
  - ■ Last Test on Monday 04/25