

# Set up the openPASS development environment

### 1 Set up Qt

- 1. Install Qt 5.6.1 with MinGW 4.9.2 32bit from:
  - https://www.qt.io/download/
- 2. Set environment variables:
  - a. Go to
    Control Panel\System\System\Advanced system settings
    > Advanced > Environment Variables > System variables
  - b. Edit the variable "Path" and add at the end:C:\Qt\Qt5.6.3\Tools\mingw492\_32\bin\;c:\Qt\Qt5.6.2\5.6\mingw49\_32\bin\;
- 3. Start Qt Creator
- 4. Modify options:
  - a. Set Tools > Options > Build & Run > General > Projects Directory to "Current Directory"
  - b. Set Tools > Options > Build & Run > General > Build & Run > Default build directory to "c:/Build/TEMP/%{CurrentProject:Name}"

# 2 Set up source code

- 1. Copy the source code to c:\OpenPASS\ (path must be short to avoid compilation issues)
- 2. Define libraries build folders in c:\OpenPASS\Global.pri:
  - a. DIR\_DEBUG = "c:\Build\DEBUG"
  - b. DIR\_RELEASE = "c:\Build\RELEASE"
- 3. Delete all \*.pro.user files
- 4. Start Qt Creator
- 5. Start a new session File > Session Manager > New (give it a name)
- 6. Open all "OpenPass\_PCM.pro"
- 7. Mind build configuration: either all projects in Debug or all projects in Release mode

# 3 Prepare configuration files

- 1. Choose set of configuration files
- 2. Optionally, change configuration files, e.g.
  - a. Configuration of output path and output file name(s) can be changed in runConfiguration.xml in the settings for <Observations>
  - b. Physical properties of agents can be changed in runConfiguration.xml in the settings for <Agents>

#### 4 Run simulation

1. Build all projects in Debug or Release mode (see DIR\_DEBUG and DIR\_RELEASE)



- 2. Copy configuration files (agentConfiguration.xml, frameworkConfiguration.xml, runConfiguration.xml, sceneryConfiguration.xml) to the build target folder (see DIR\_DEBUG and DIR\_RELEASE)
- 3. Execute either OpenPassMaster.exe or OpenPassSlave.exe

# 5 Simulation results

1. Simulation results are to be found in the directory specified in runConfiguration.xml. Default: same directory as dll-files.