Goal: Generate accurate, physical models of concrete to apply and find solutions to fracture propagation in concrete

Objectives:

1. Separate and Clean up CT Scan for binary image processing
2. Create and further clean binary images
3. Generate 3D .stl file from binary images
4. Create a method to edit models directly from MATLAB

Broader context: Concrete is consumed everyday in construction. They serve as perhaps the part of a structure. However, concrete can be source of structure failure if not properly taken care of. We are creating physical models to test solutions, such as the use of epoxy repair, to ensure the security of an aging infrastructure.