

# Virtual Designing and Modeling of a Mountain Bike Trail

By Jiaqing Li

## The Objective



Possibility of RoadEng



**Machine Simulation** 



Integrate Design criteria

### **Data Collection**



Collect data of a current existing trail

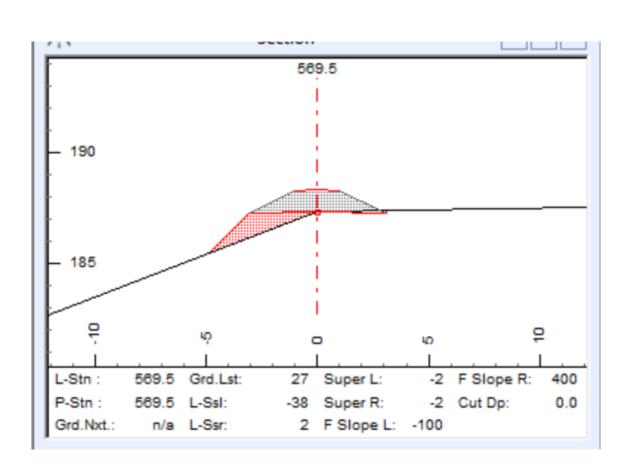


**Cross-Sectional View** 



Full View

#### **Cross-Sectional View**

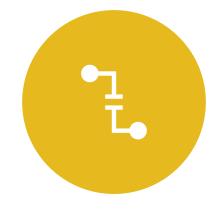


Plan:1

# Modeling



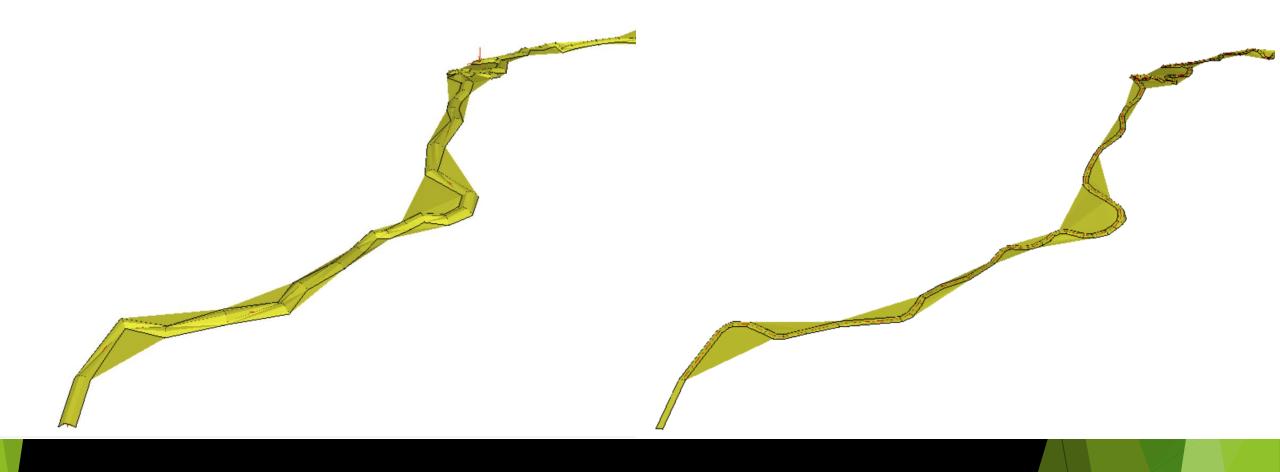




REMODEL

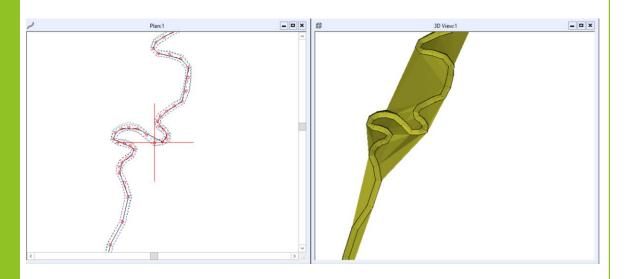


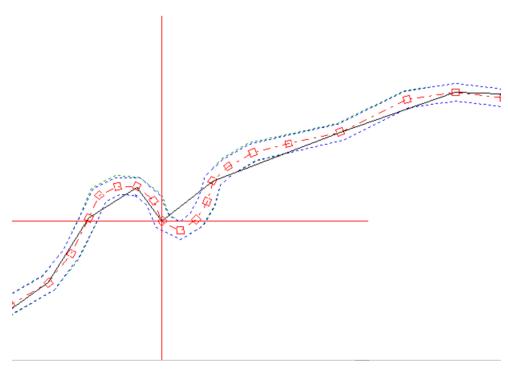
**REDESIGN** 



# Remodeling-ReDesigning Before and After







#### Future Work: 3D Simulations World



Terrain Builder



Topographical data



Machine Simulator

