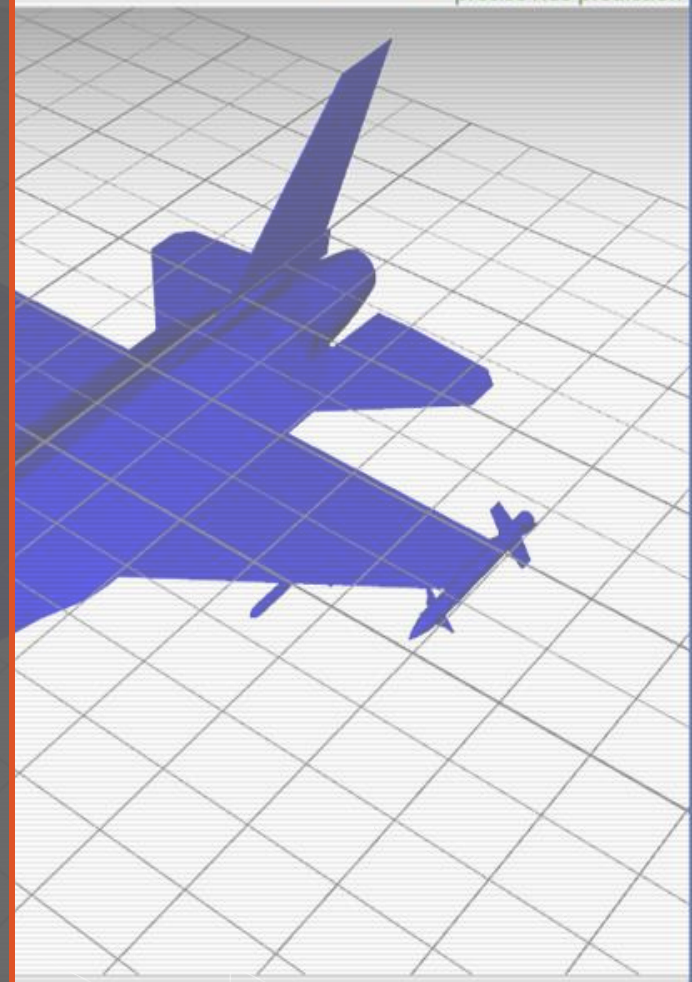
User Manual for PREDICS Software-as-a-Service Application

https://predicsrcs.com



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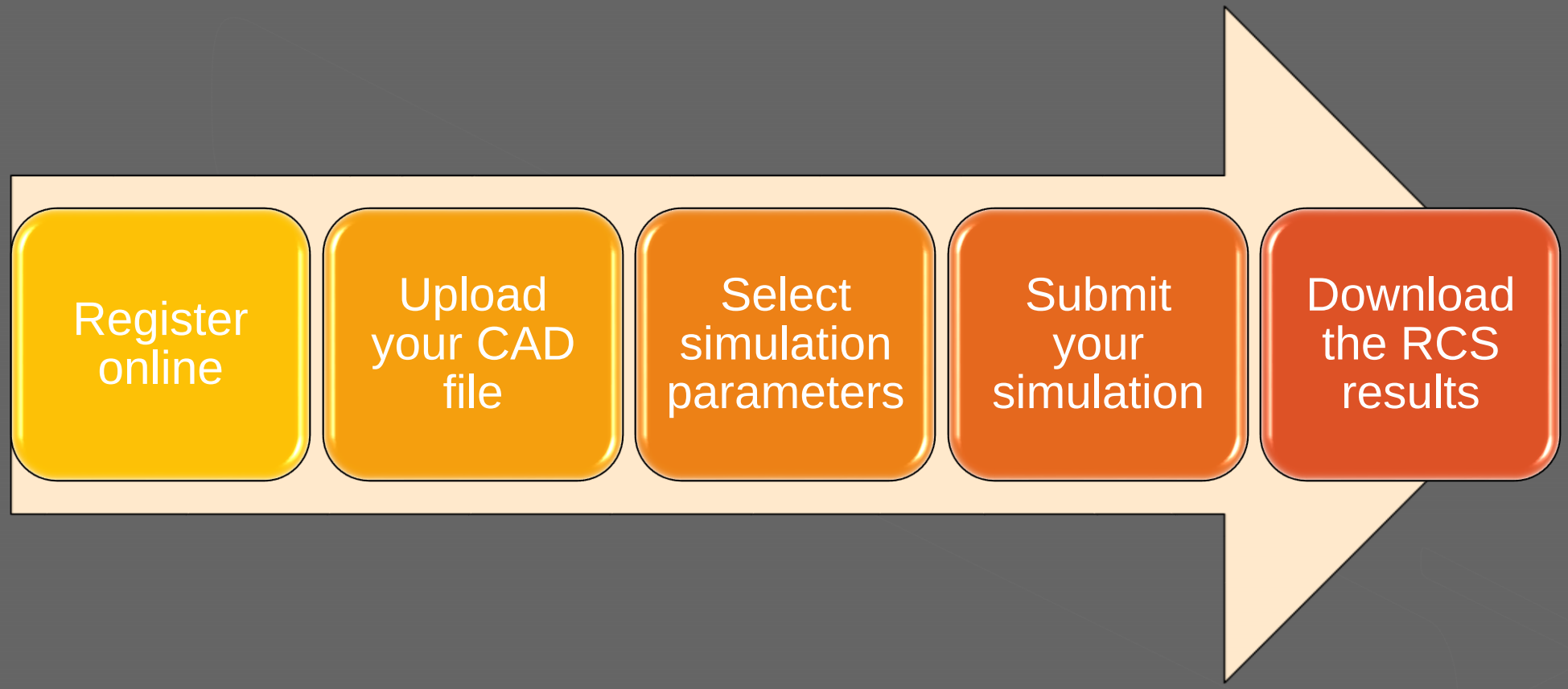
Introduction

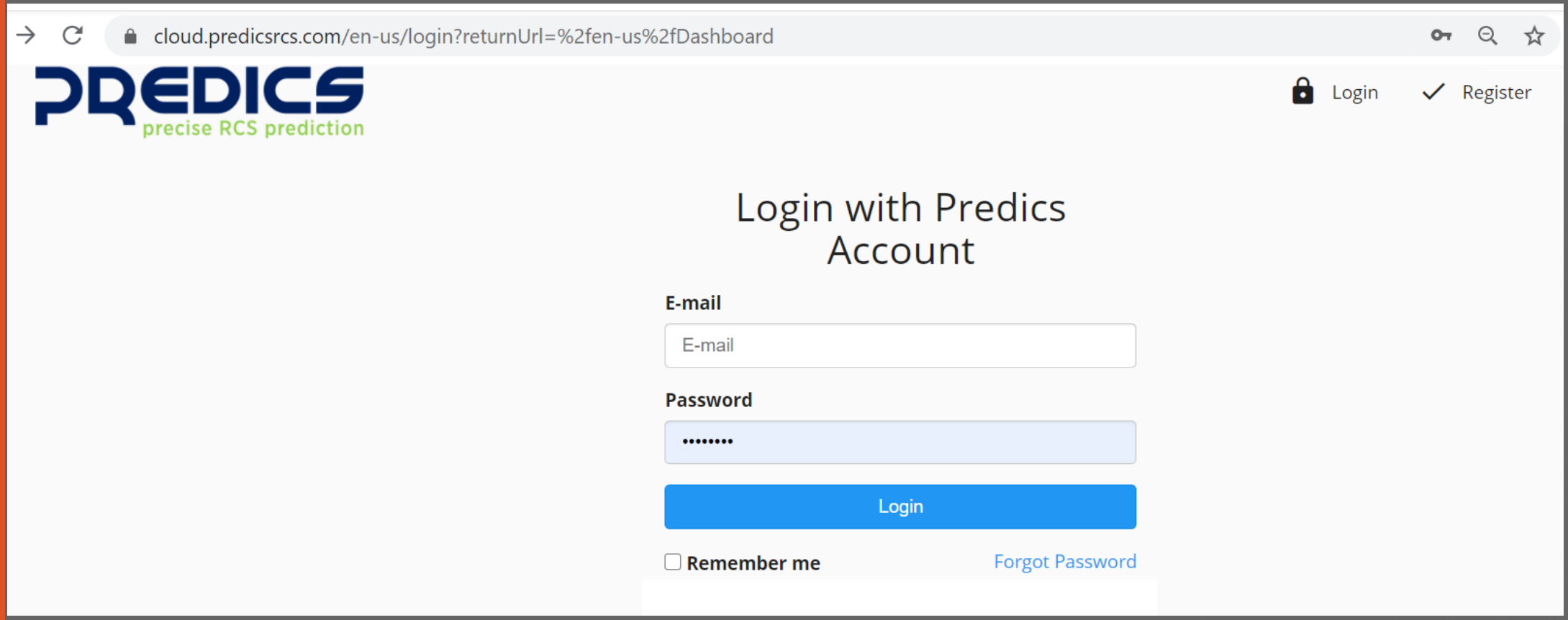
- This user-manual briefly describe how to use the ***PREDICS Radar Cross Section Simulation and Analysis*** software over the Internet by the help of Software-as-a-Service (SaaS) application,
- With this application, it becomes possible to submit an RCS and/or Inverse Synthetic Aperture Radar (ISAR) simulation from your computer without the need to buy the full license of PREDICS.
- You will be able to download the simulation results within minutes to your own computer.

General overflow of using PREDICS SaaS module



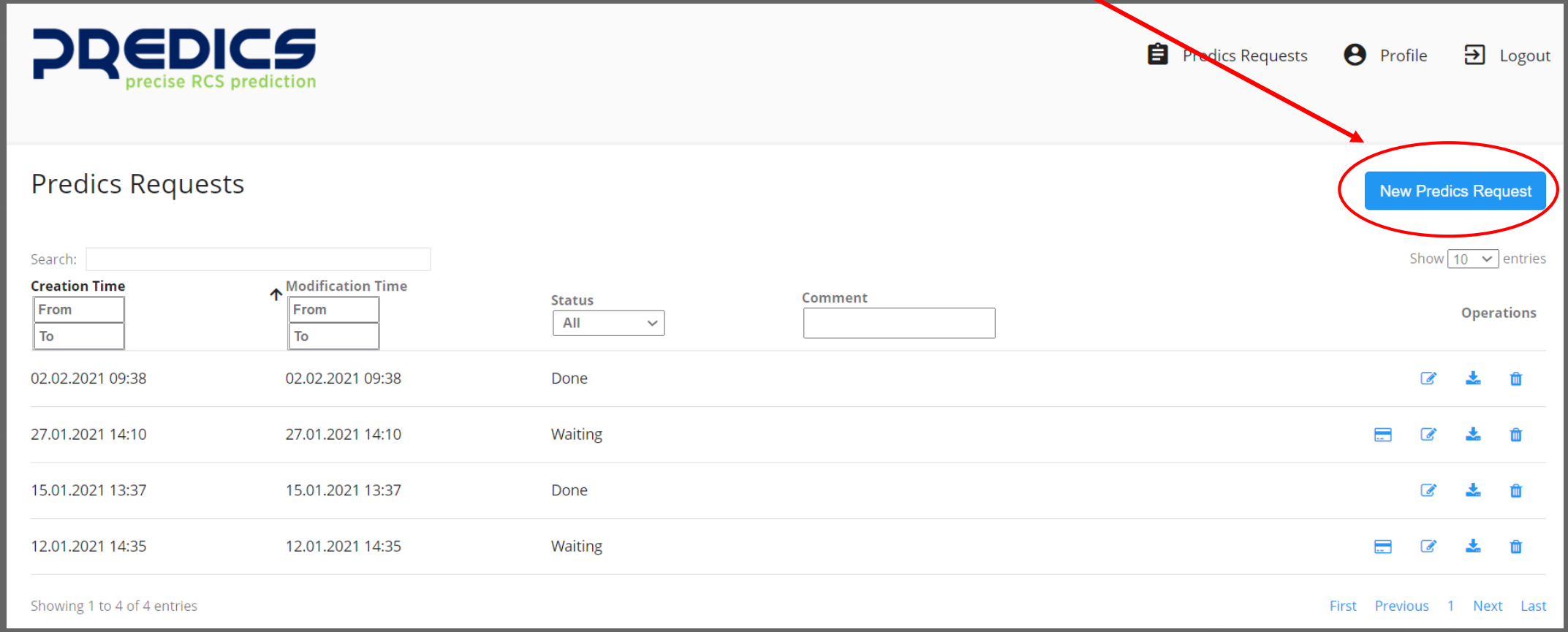
STEP 1 - Register

- Register online via https://cloud.predicsrcs.com/ and form your own account



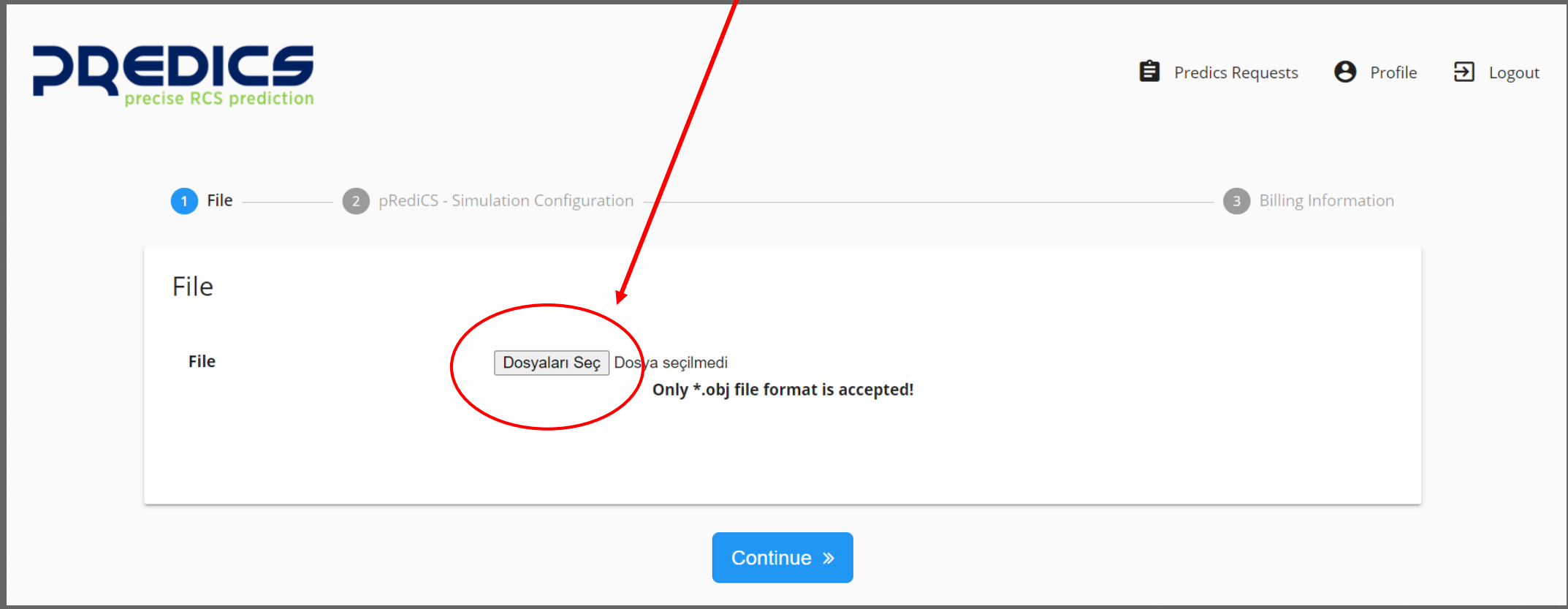
STEP 2 – Start new project

- Start a new simulation project by clicking "**New Predics Request**"



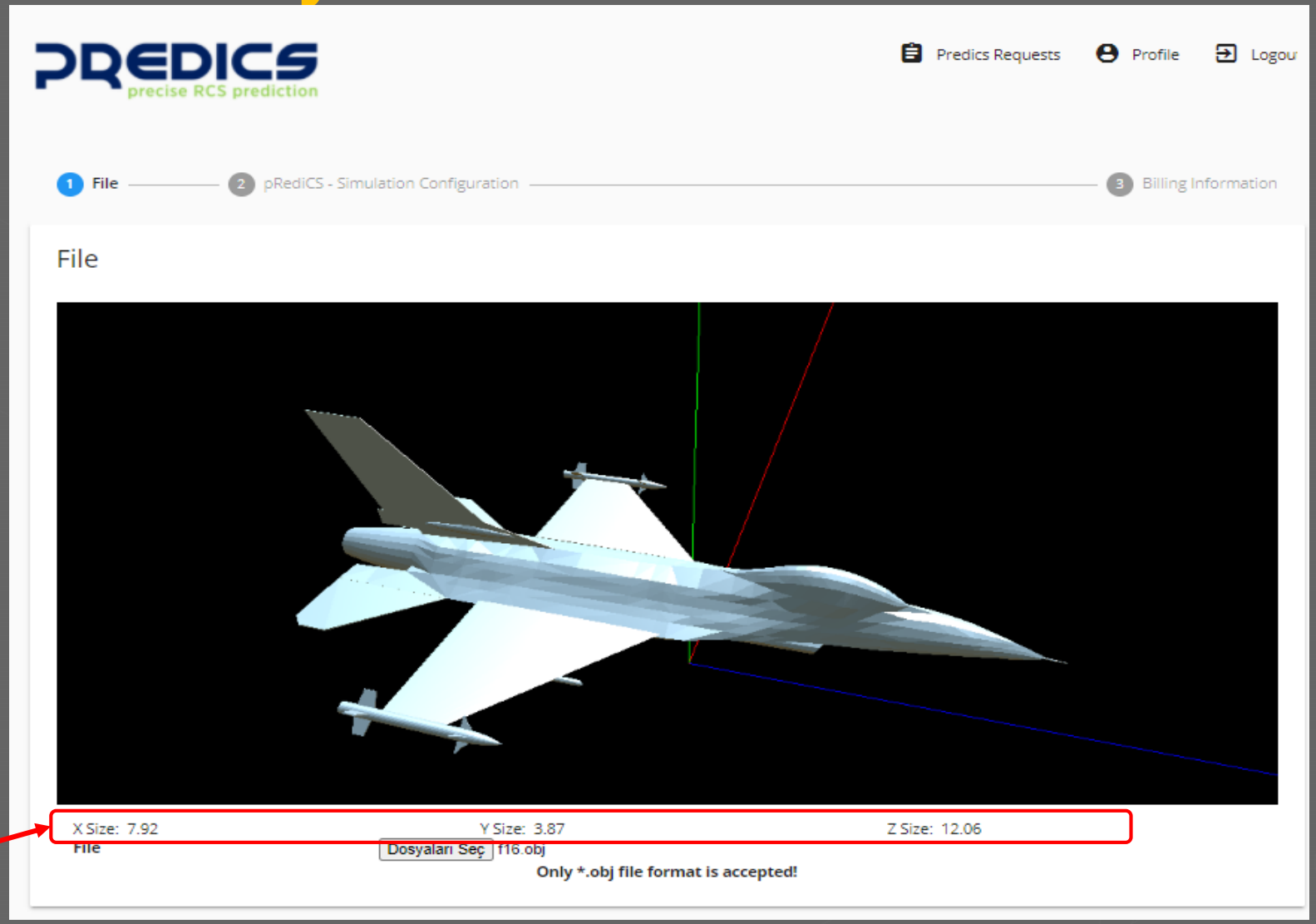
STEP 3 – Upload your CAD file

- Upload your CAD* file by clicking "Select File"



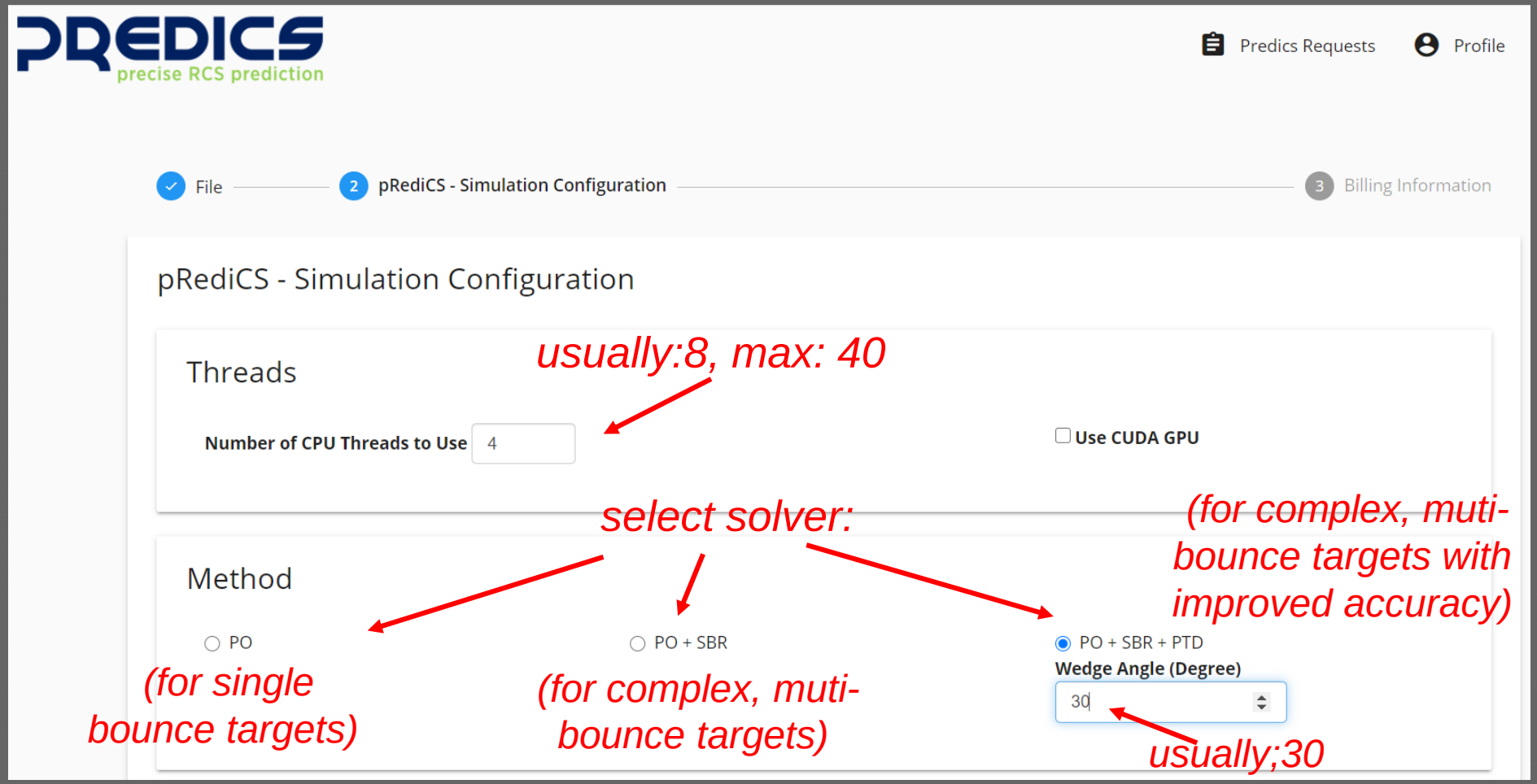
STEP 4 - View your CAD file

- View your CAD file from the screen to make sure that it is correctly uploaded.
- Also note the dimension of the whole model.



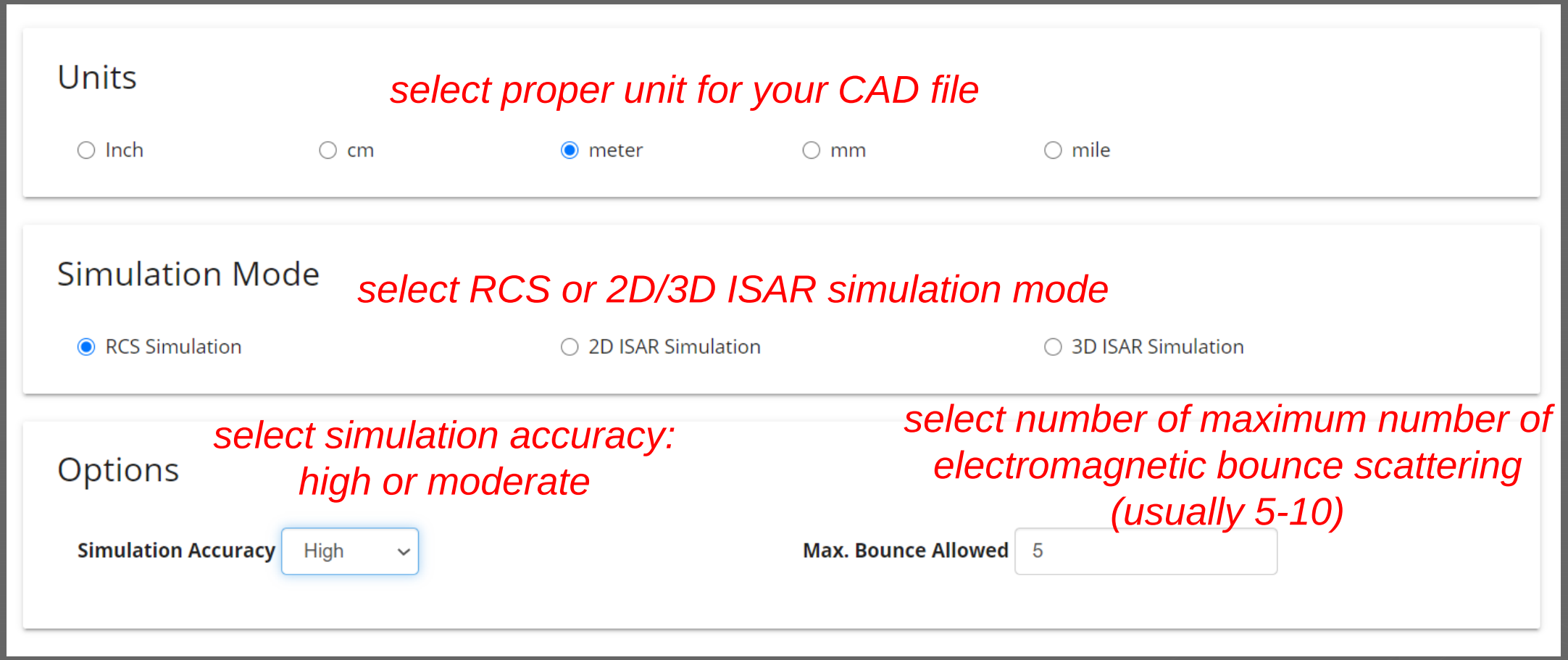
STEP 5 – Enter Simulation parameters

- Start filling out RCS/ISAR simulation parameters



STEP 5 – Enter Simulation parameters

- Continue filling out RCS/ISAR simulation parameters



STEP 5 – Enter Simulation parameters

- Continue filling out RCS/ISAR simulation parameters

RCS Simulation Options

Frequencies *select frequencies for simulation*

Start (GHz) 8 Stop (GHz) 12 Step 4

Observation Angles *select look-angles for simulation (spherical coordinates)*

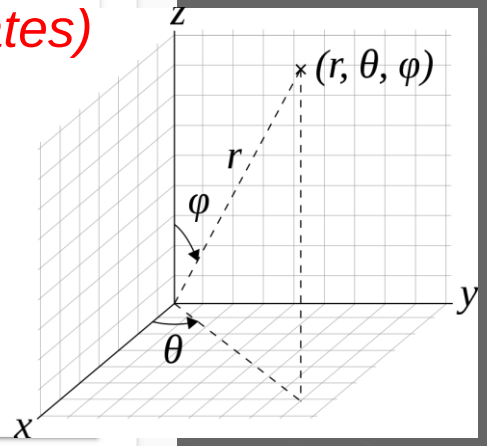
(•) Theta, Phi ( ) EL, AZ

Theta or EL (Degree)

Start 90 Stop 90 Step 0

Phi or AZ Range (Degree)

Start 0 Stop 360 Step 360



« GO TO PREV Save ← *save to finish*

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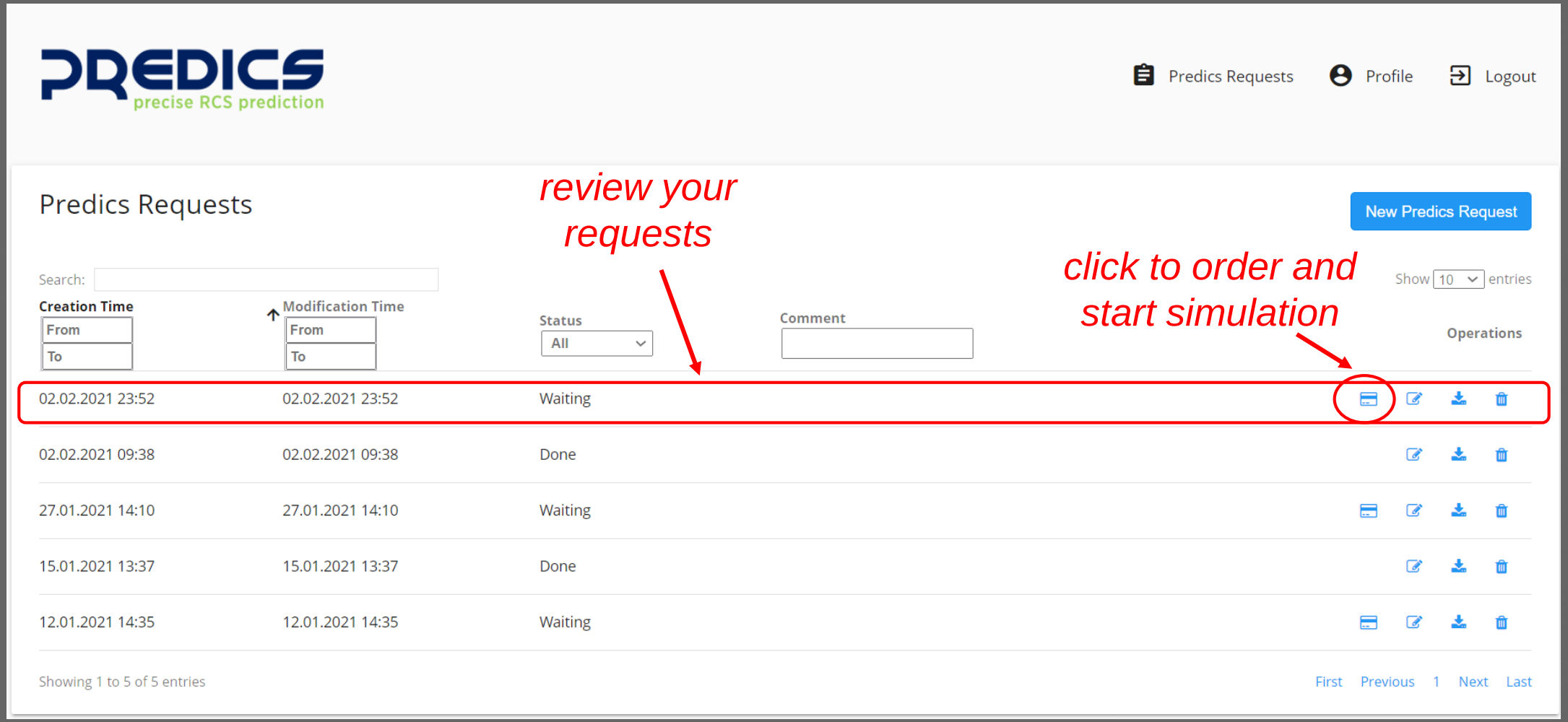
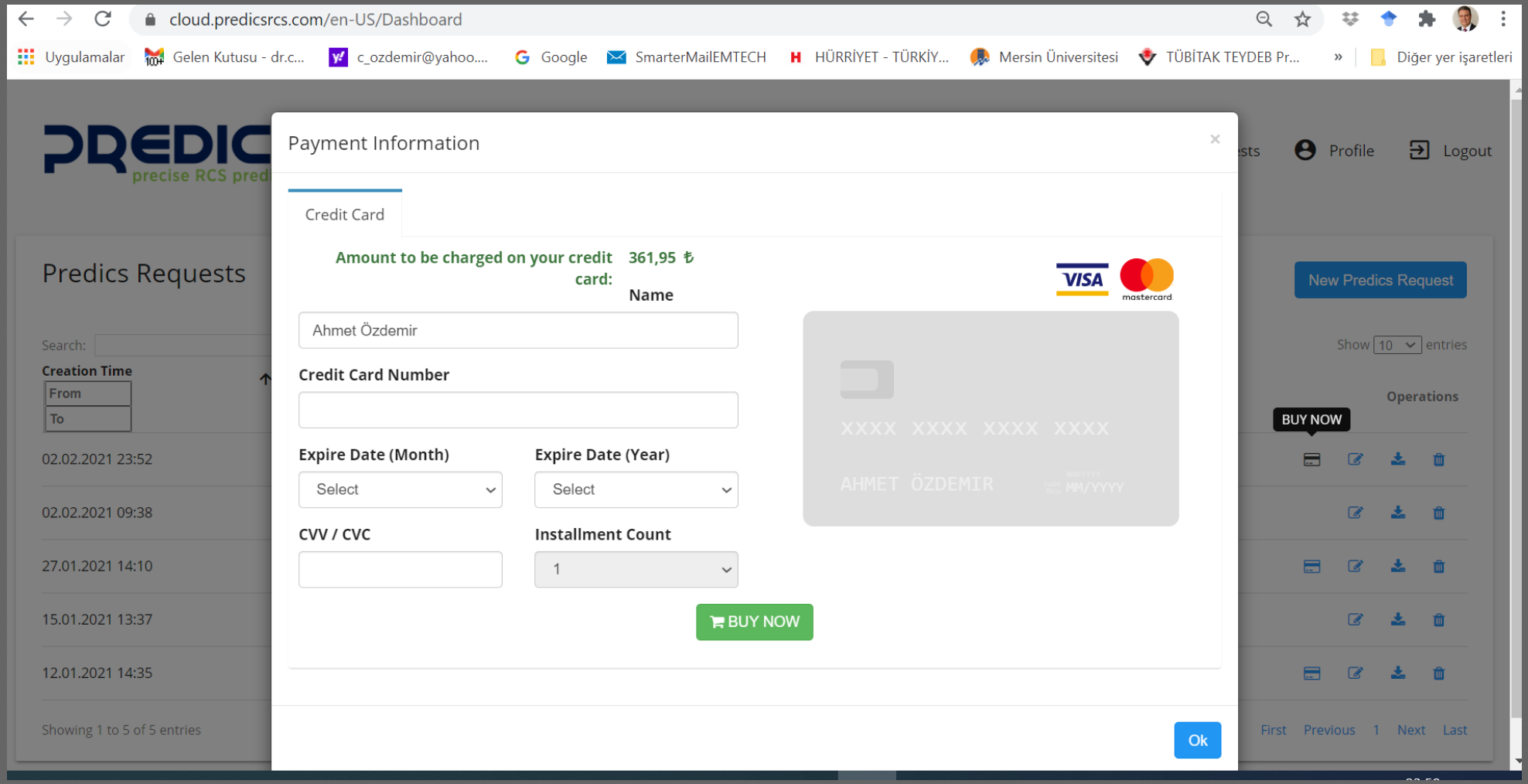
STEP 6 – Review your project before run

- Review your submission and you can order afterwards



STEP 7- Order and submit

- Securely complete your payment for the simulation via our secure payment modüle.



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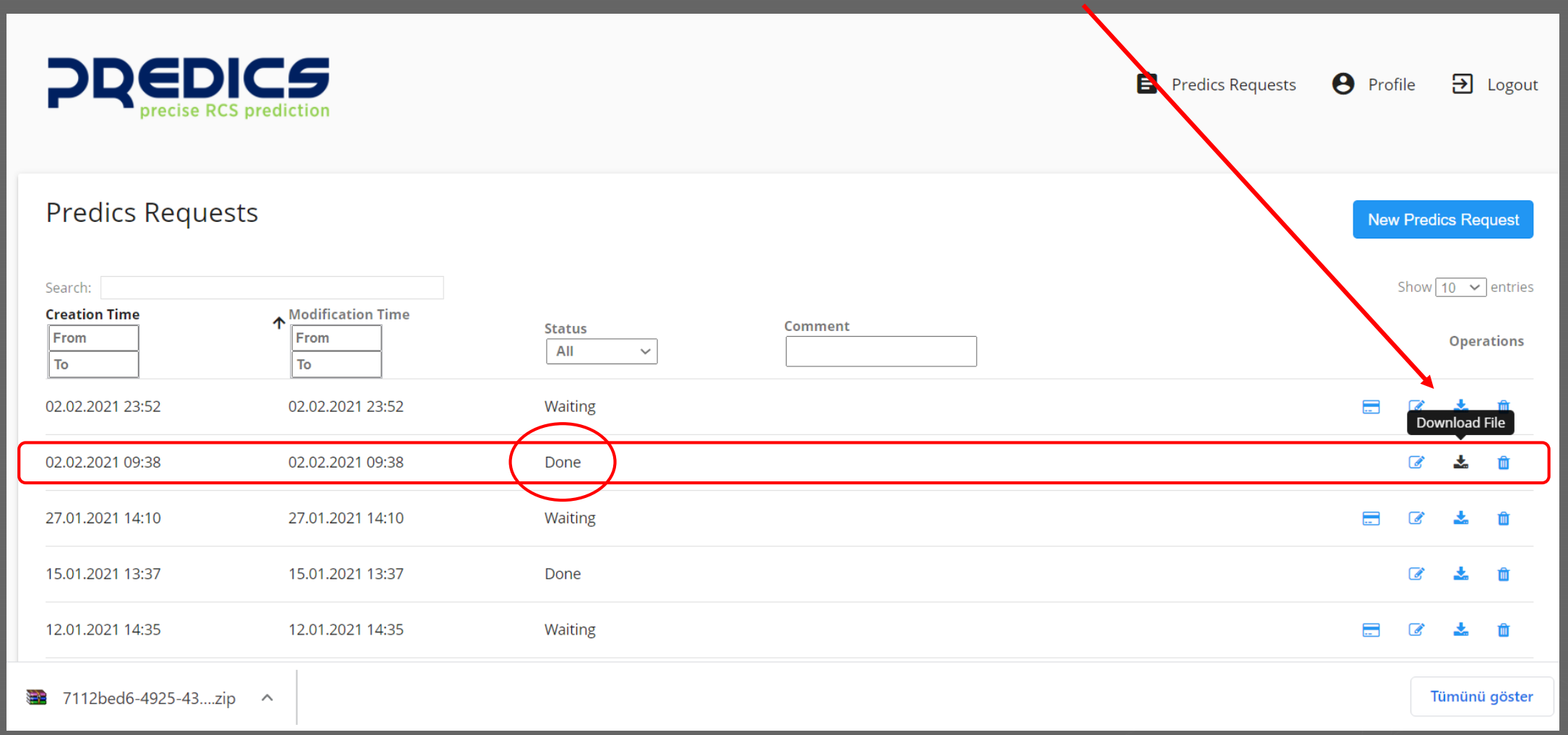
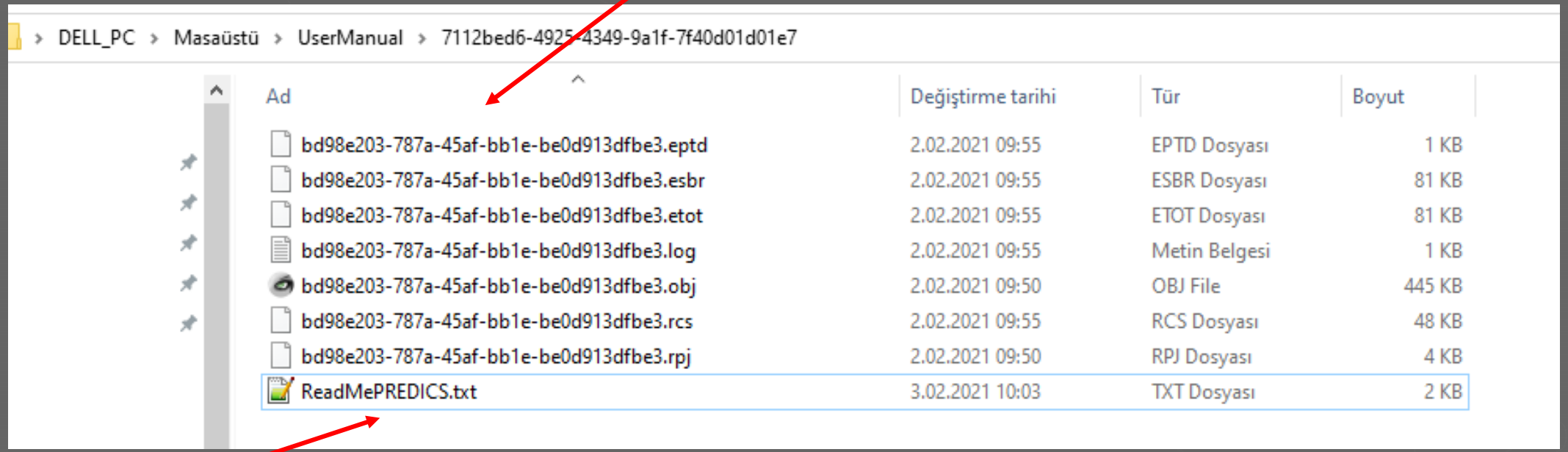
STEP 8 – Download the results

- In minutes, you can download the simulation results as shown below.



STEP 9 – Review the simulated results

- The downloaded file is a folder has a unique name-tag for your project that contains:
  - RCS simulation results
  - Backscattered electric field (for PO+SBR and PO+SBR+PTD solvers)
- All results are given in full polarization (VV, VH, HV and HH)



- ReadMe.txt file gives the detailed explanation.

For more information, please contact via

info@predicsrcs.com

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