



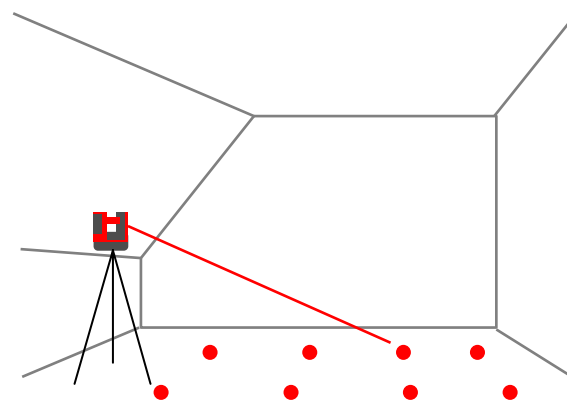
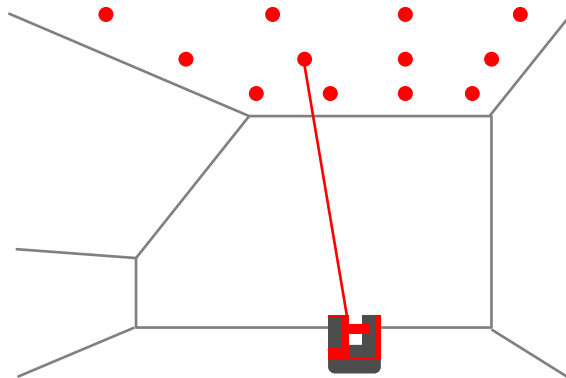
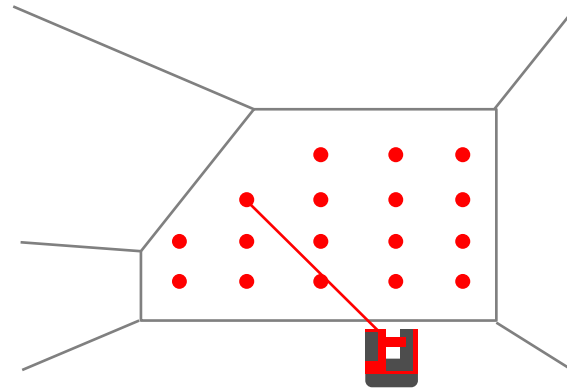
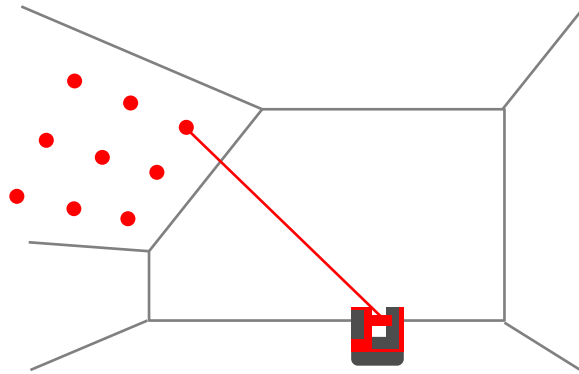
Leica 3D Disto PROJECTOR on curved surfaces

- when it has to be **right**

Leica
Geosystems

“Projector” on curved surfaces

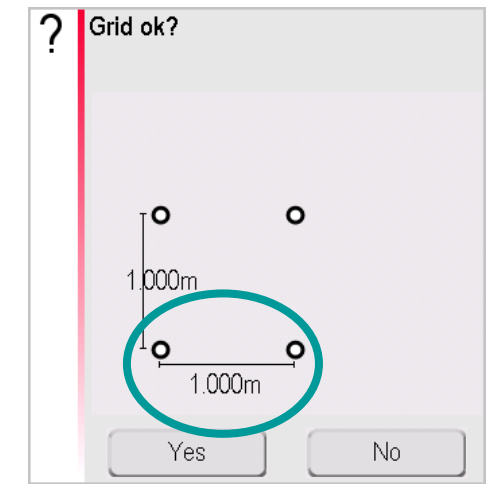
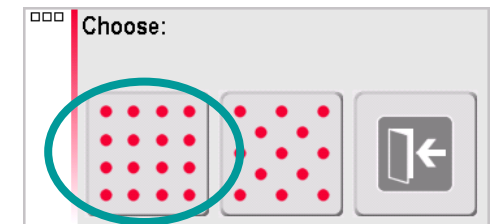
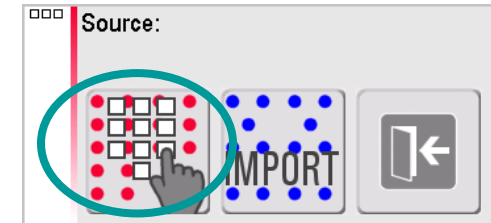
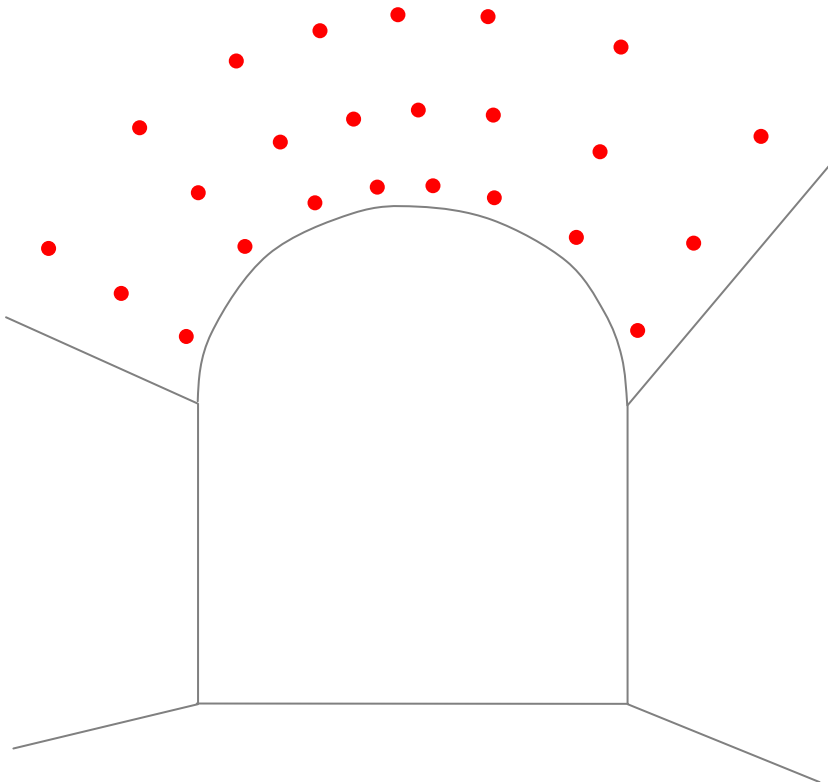
„Projector“ works on plane surfaces.



- when it has to be **right**

“Projector” on curved surfaces

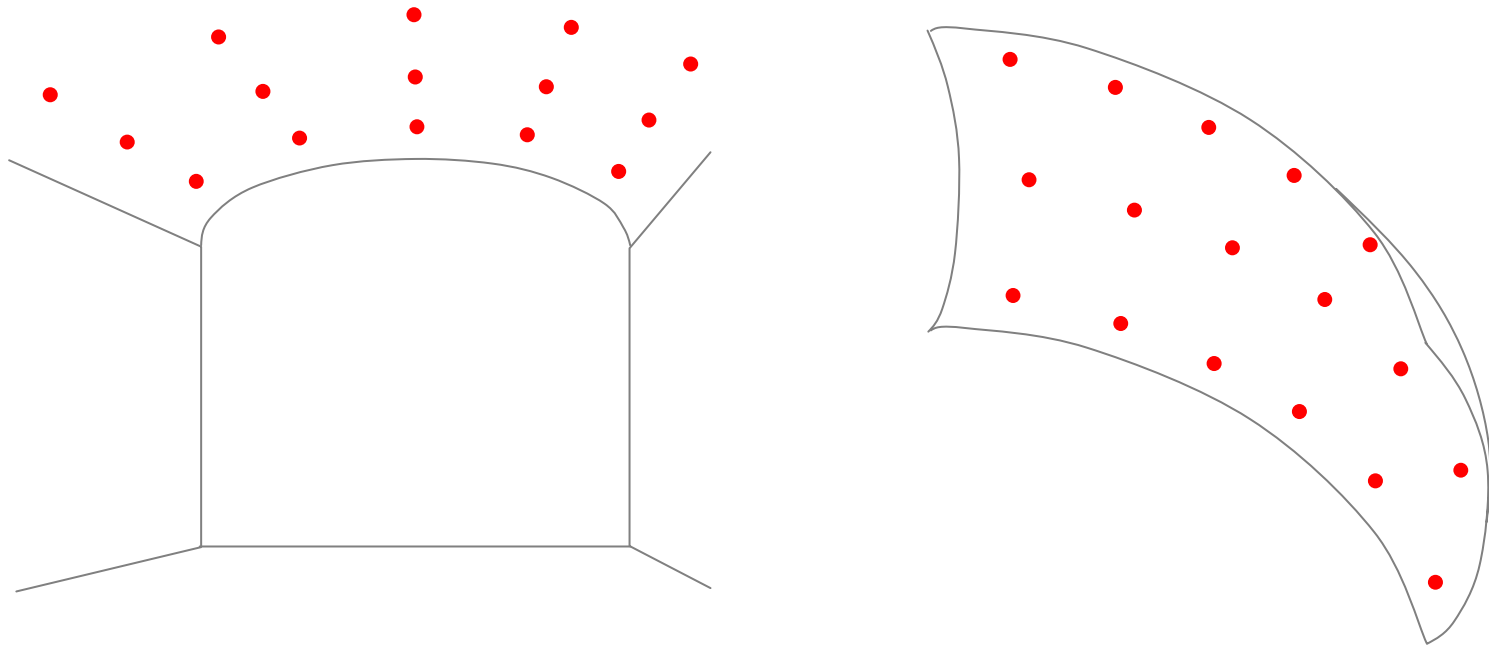
It works on curved surfaces as well, but equal point intervals are distorted.



- when it has to be **right**

“Projector” on curved surfaces

Is there a way to work on curved surfaces without distortion?



Yes – via data preparation on CAD.

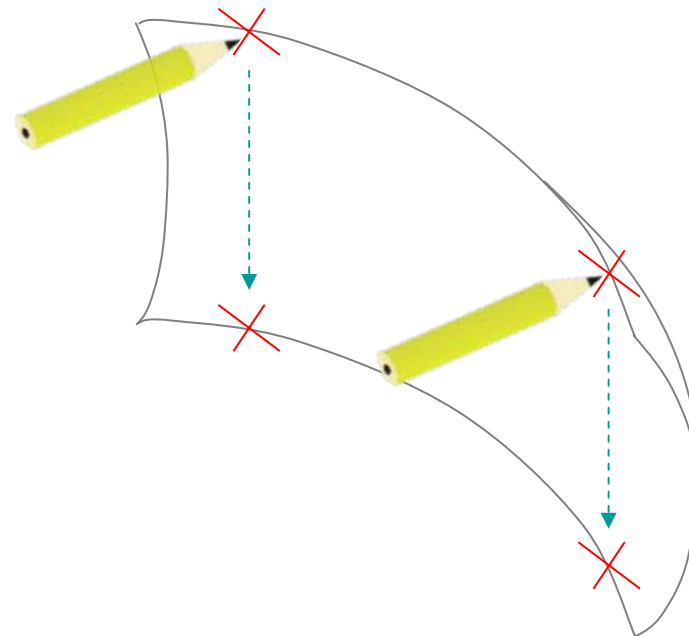
- when it has to be **right**

“Projector” on curved surfaces

Workflow

1

Mark 4 points in front of the surface so that they are in one plane (e. g. by plumbing)



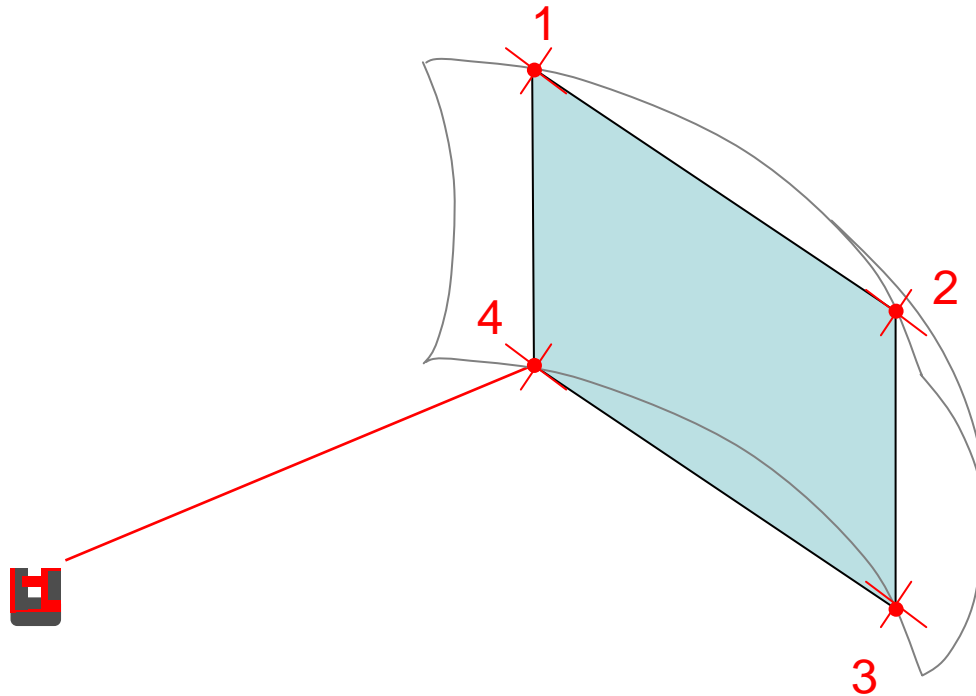
- when it has to be **right**

“Projector” on curved surfaces

Workflow

2

Measure these 4 points to define the working area at the beginning of the Projector application. Measure more points if necessary (e. g. the curved surface)



- when it has to be **right**

“Projector” on curved surfaces

Workflow

3

Save and export the data, then import to your CAD system.



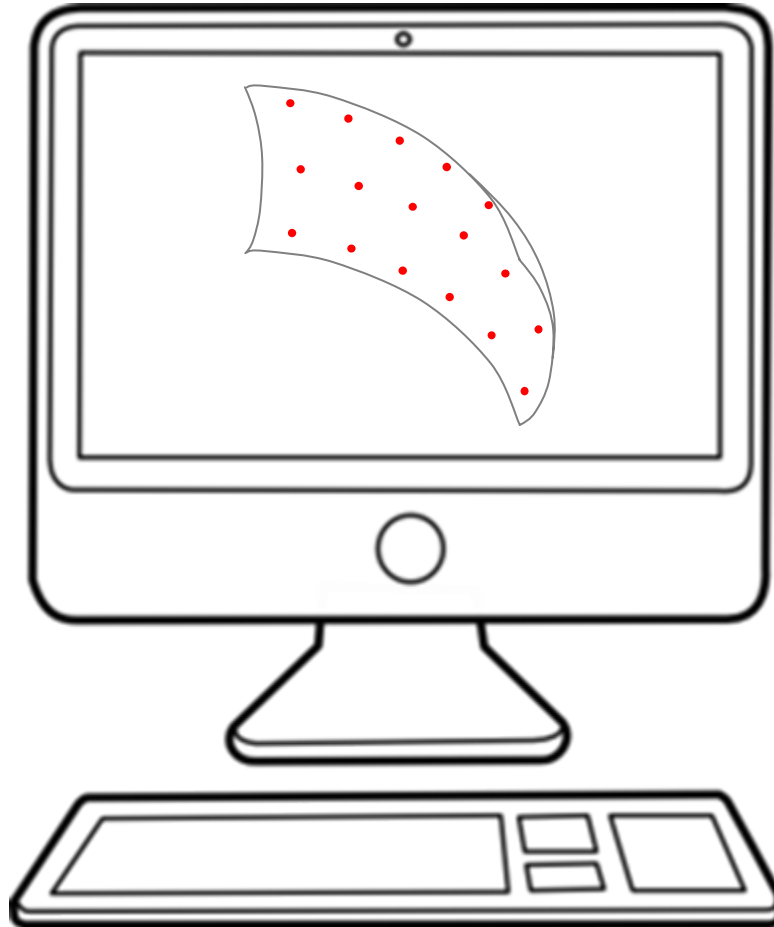
- when it has to be **right**

“Projector” on curved surfaces

Workflow

4

Design the points that you want to be projected.



- when it has to be **right**

“Projector” on curved surfaces

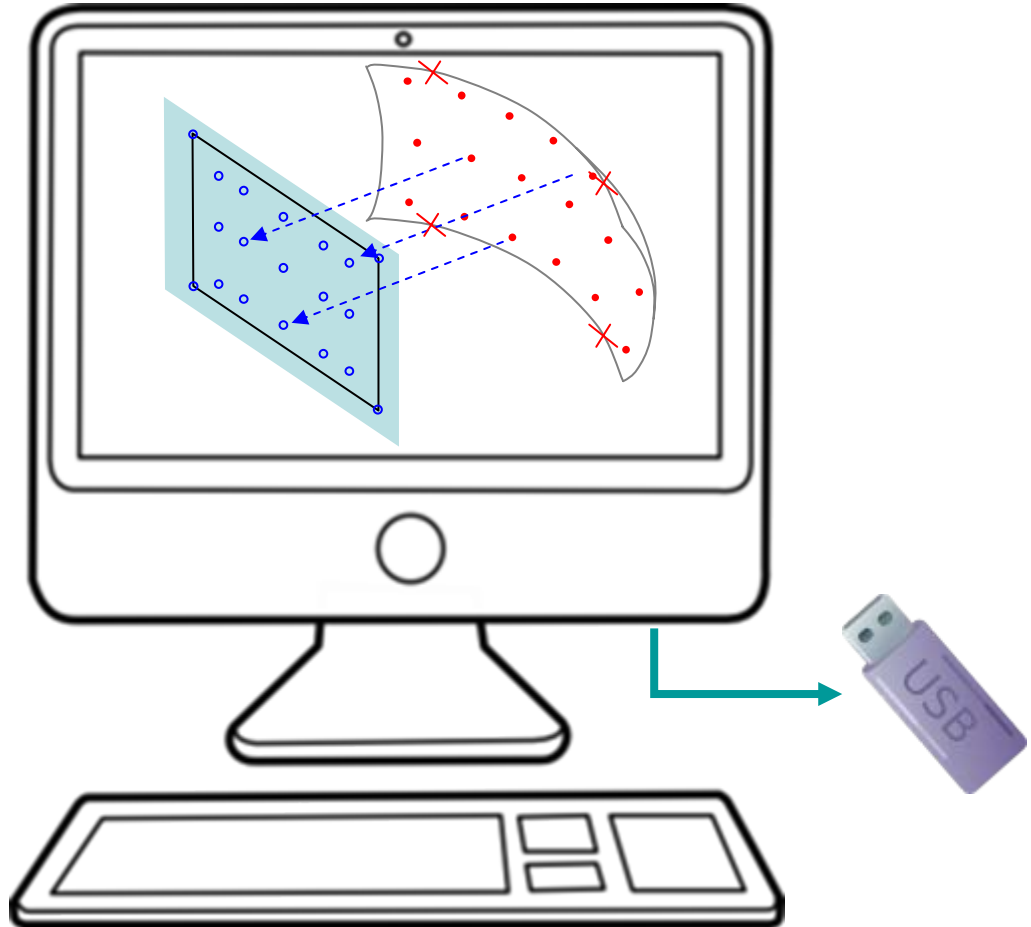
Workflow

5

Transform all points onto the measured plane (the 4 corner points too)

The data is distorted but will be at correct position if projected on the bulge.

Export data to DXF file (drawing) or CSV file (chart).



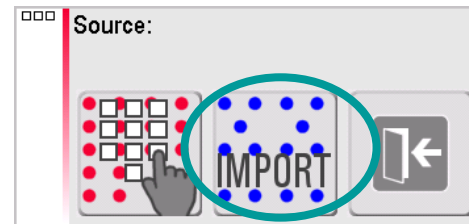
- when it has to be **right**

“Projector” on curved surfaces

Workflow

6

Copy the file to the Control Unit.
Start Projector, measure the 4 corner points.
Import file to Projector.



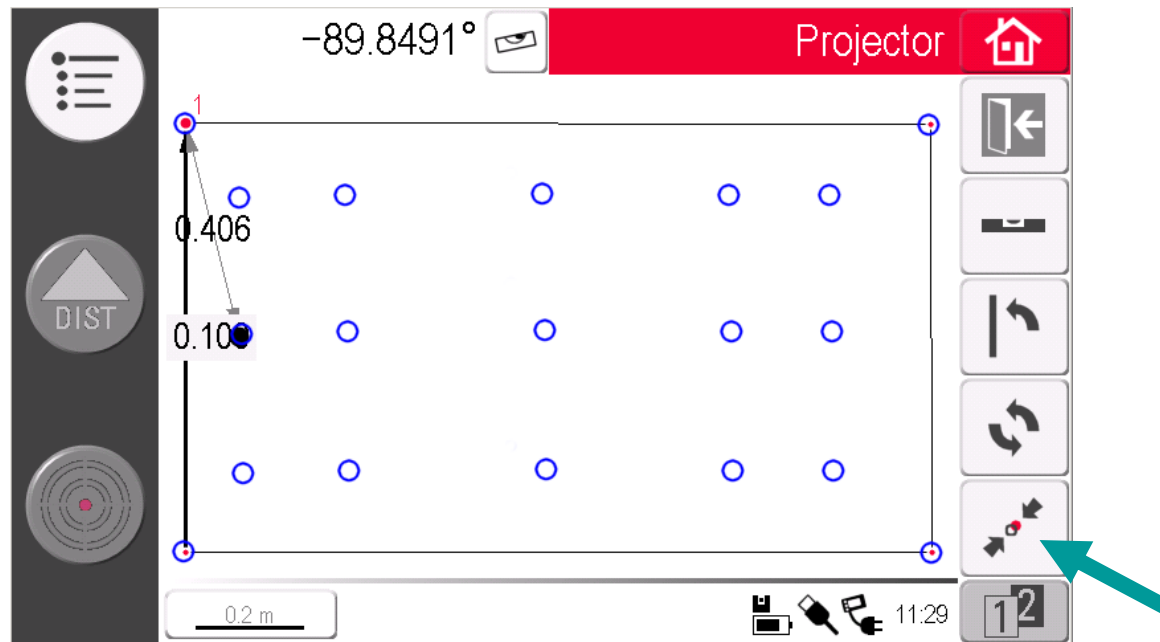
- when it has to be **right**

“Projector” on curved surfaces

Workflow

7

Cover the corner points and measured points (use key)



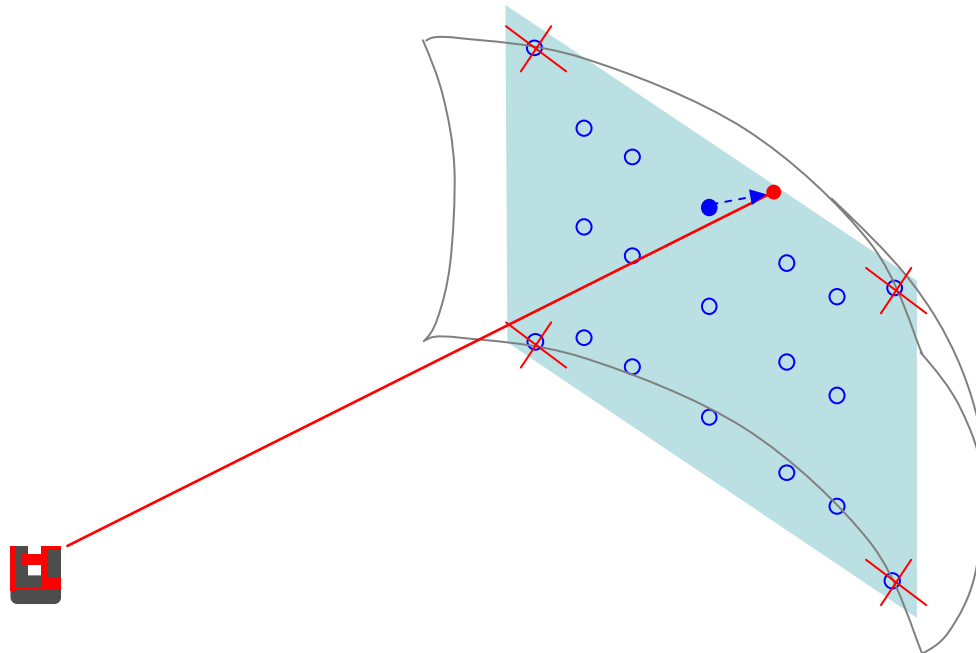
- when it has to be **right**

“Projector” on curved surfaces

Workflow

8

Set out like usual.



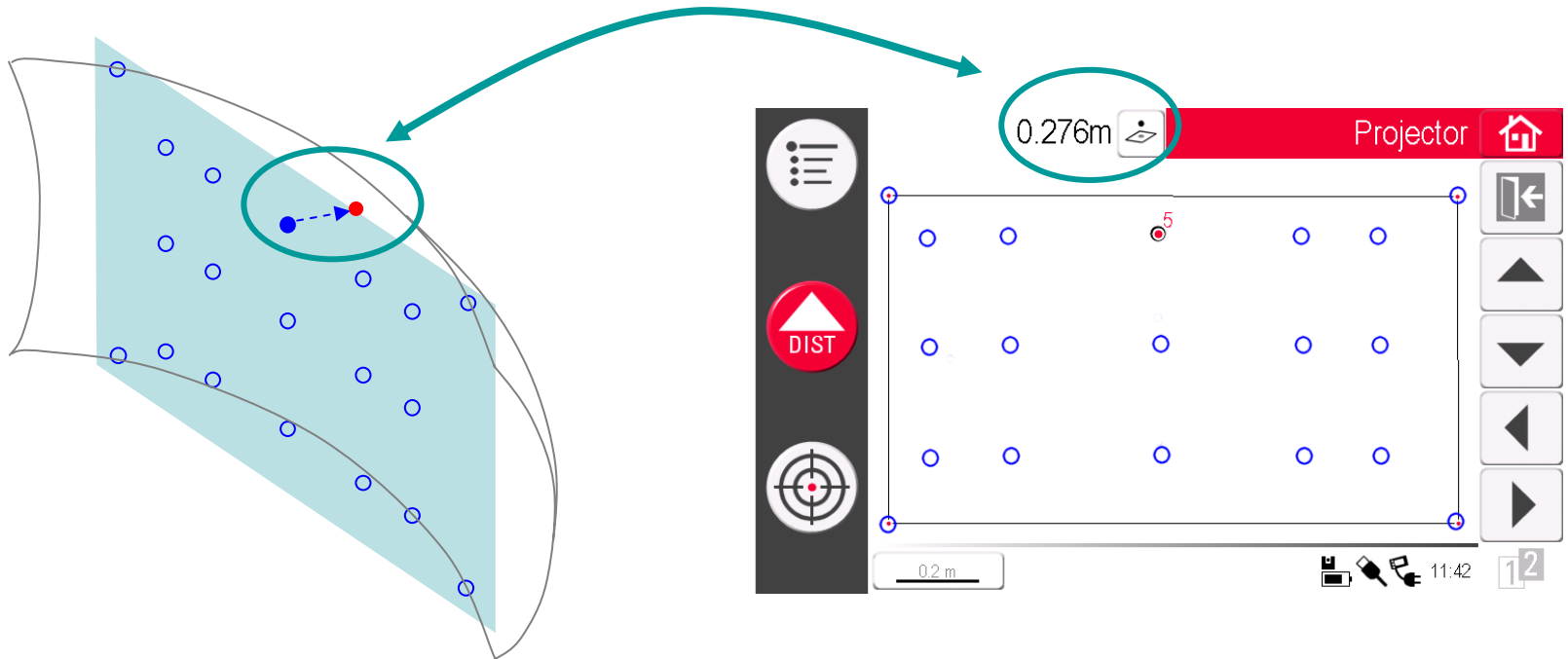
- when it has to be **right**

“Projector” on curved surfaces

Workflow

9

After each point's projection the distance to the plane is indicated.



- when it has to be **right**