NETTVERK

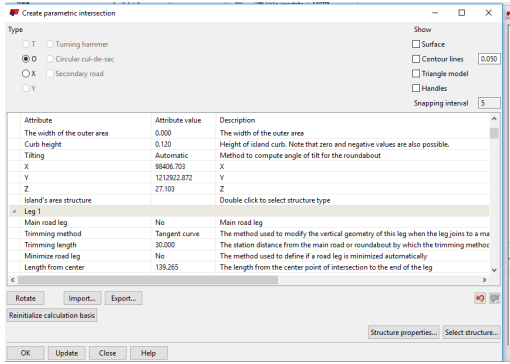
Modellering av vegkryss i 3D

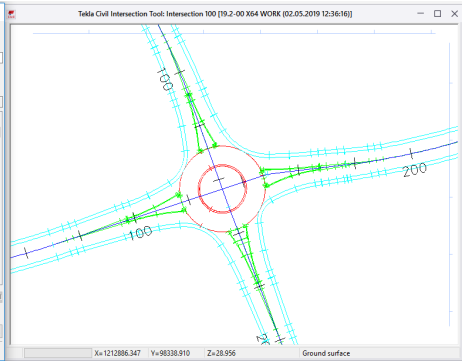
Patrick Mc Gloin

Trimble

AGENDA

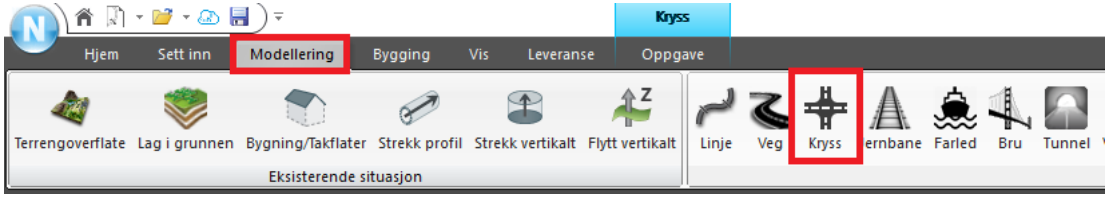
- Agenda
  - Gjennomgang av 3D Kryss
    + Endringer siden sist
  - DEMO
  - Spørsmål og svar





3D kryssfunksjon

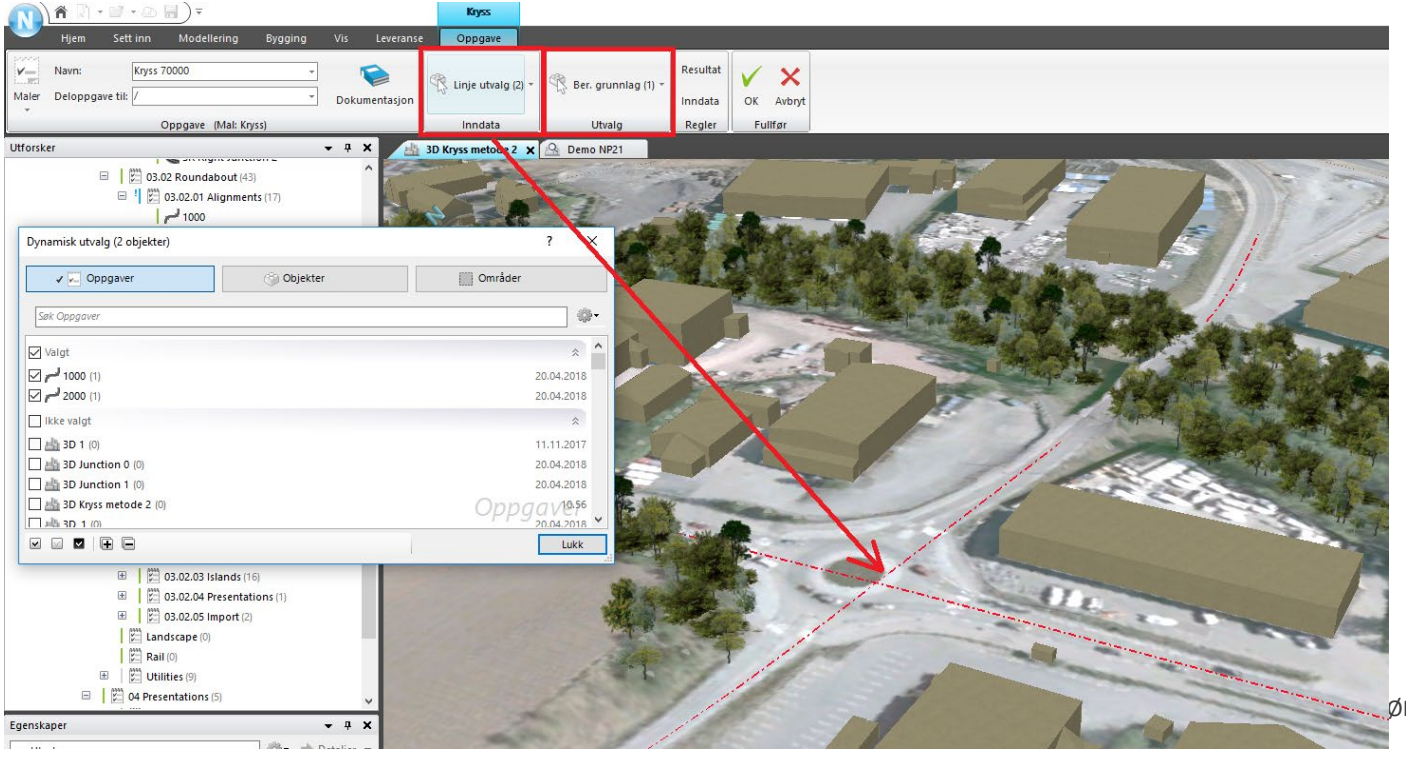
Egen oppgave under Modellering



Ny – Kryss nå produserer solid volumer for overbygningslag
Ny – Armene kan dras langs senterlinje til et bestemt profil nr.
Ny – Ny mal for bare trafikk område
Ny – Oppdatert brukerveiledning

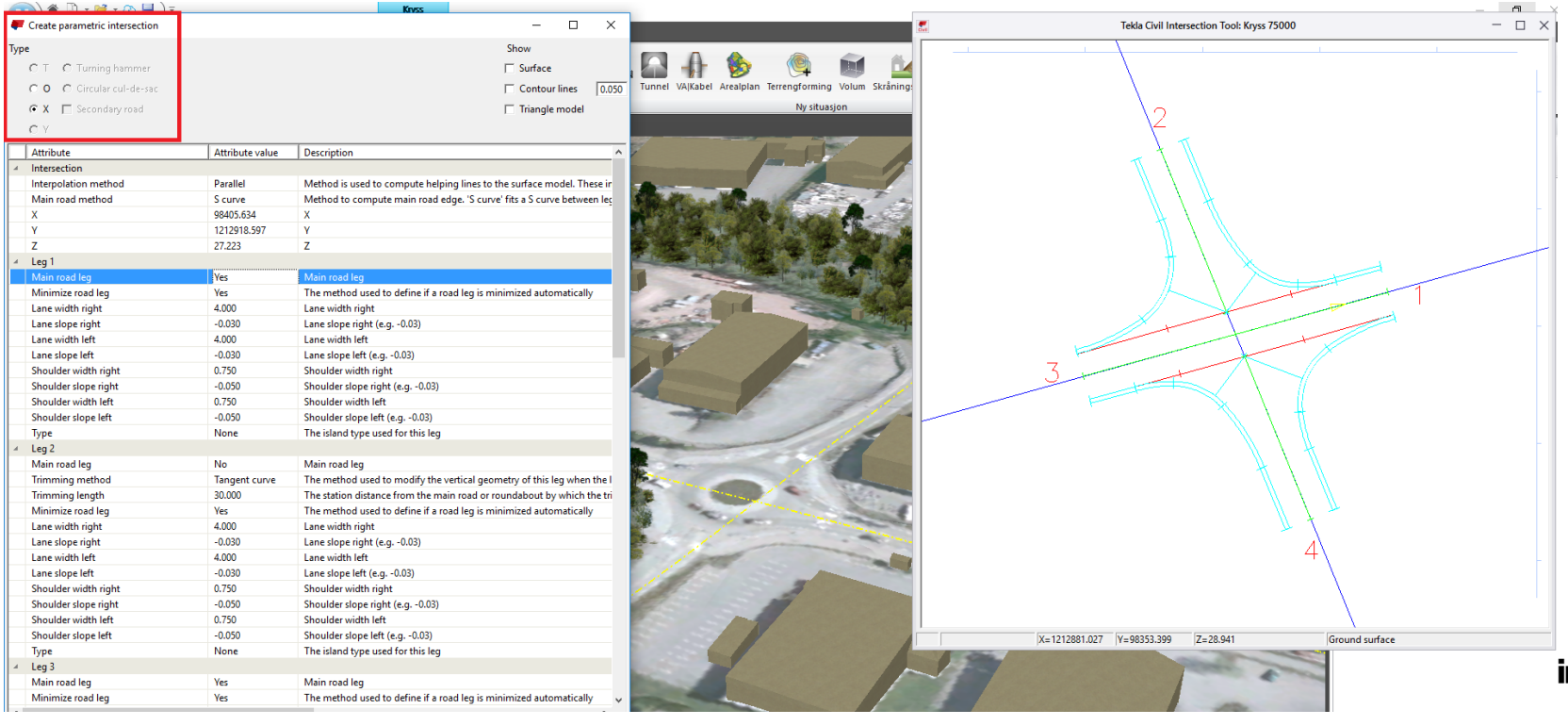
3D kryssfunksjon

Inputdata - veg senterlinjene og terrengoverflate (uten lag i grunnen)



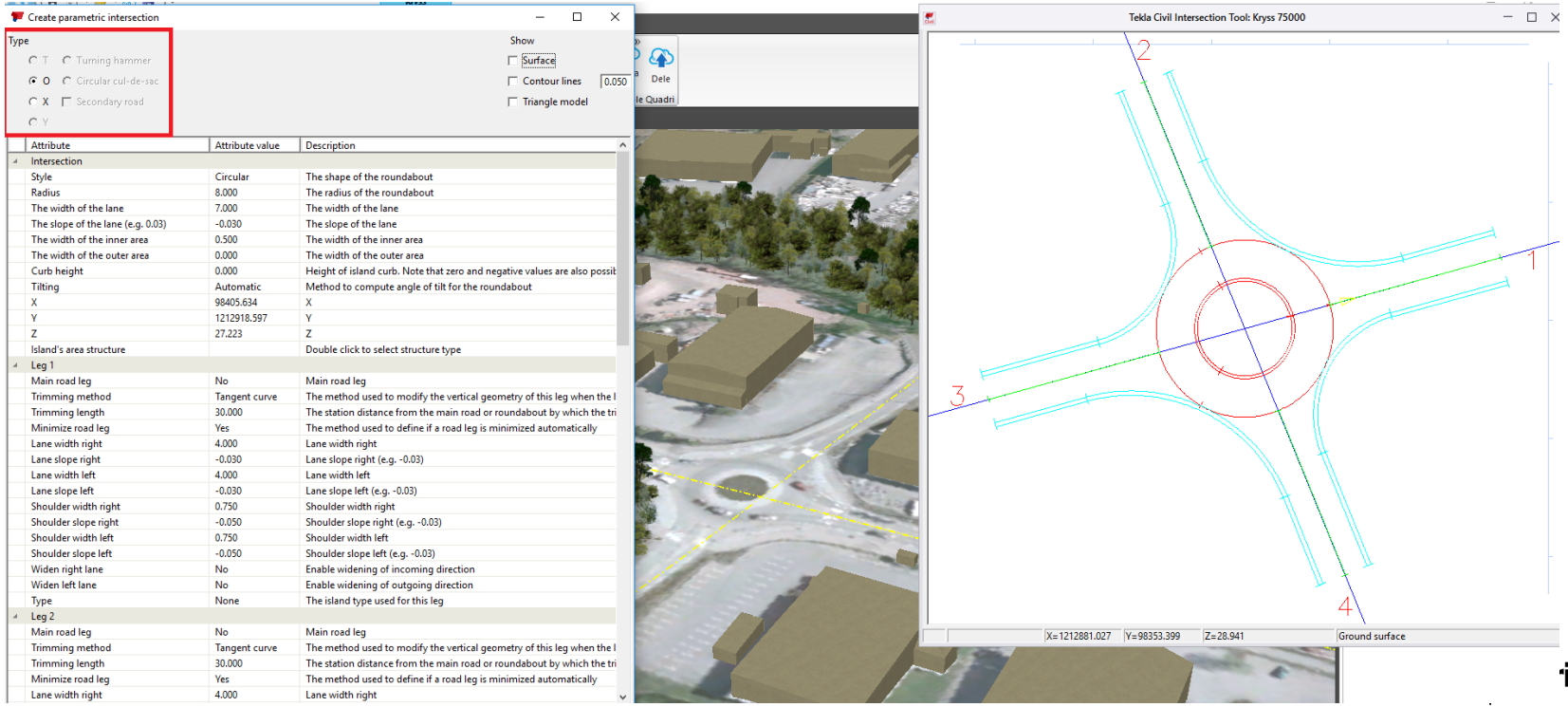
3D kryssfunksjon

Velg **Åpne** på oppgaven:



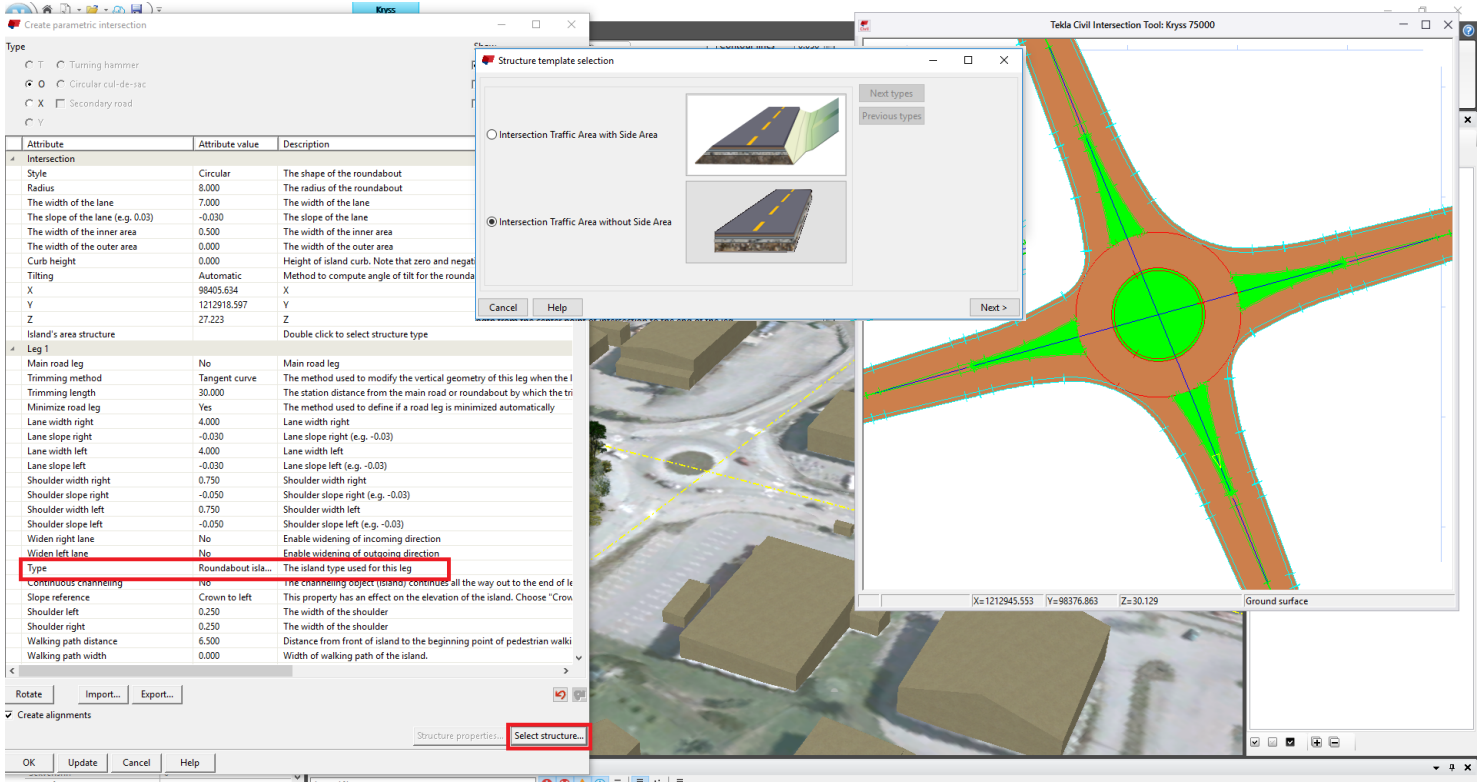
3D kryssfunksjon

Velg **Åpne** på oppgaven:



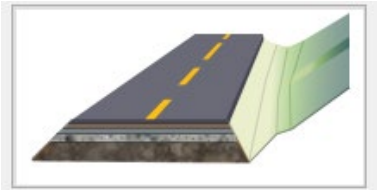
3D kryssfunksjon

Velge de parameter man vil ender på – leg på trafikk øy – velg overbygning:



3D kryssfunksjon

Select structure:
(Velg overbygning og terreng tilpasning)

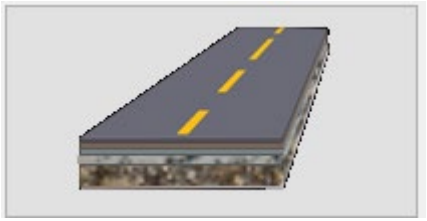


Structure parameters

Parameter	Type	Value
1-1) Wearing course	Delta z	0.05000
2-1) Binder 1	Delta z	0.05000
2-2) Binder 2	Delta z	0.05000
3-1) Base 1	Delta z	0.10000
3-2) Base 2	Delta z	0.10000
3-3) Base 3	Delta z	0.10000
4-1) Sub-base 1	Delta z	0.20000
4-2) Sub-base 2	Delta z	0.20000
4-3) Sub-base 3	Delta z	0.20000
5-1) Filter	Delta z	0.00100
Cut slope	Gradient	1.00000
Ditch bottom width	Distance	0.50000
Ditch depth	Delta z	0.50000
Ditch slope	Gradient	-0.50000
Fill slope	Gradient	-0.50000
Inner slope	Gradient	-0.66700
Side course slope	Gradient	-0.03000

3D kryssfunksjon

Select structure (Velg overbygning):



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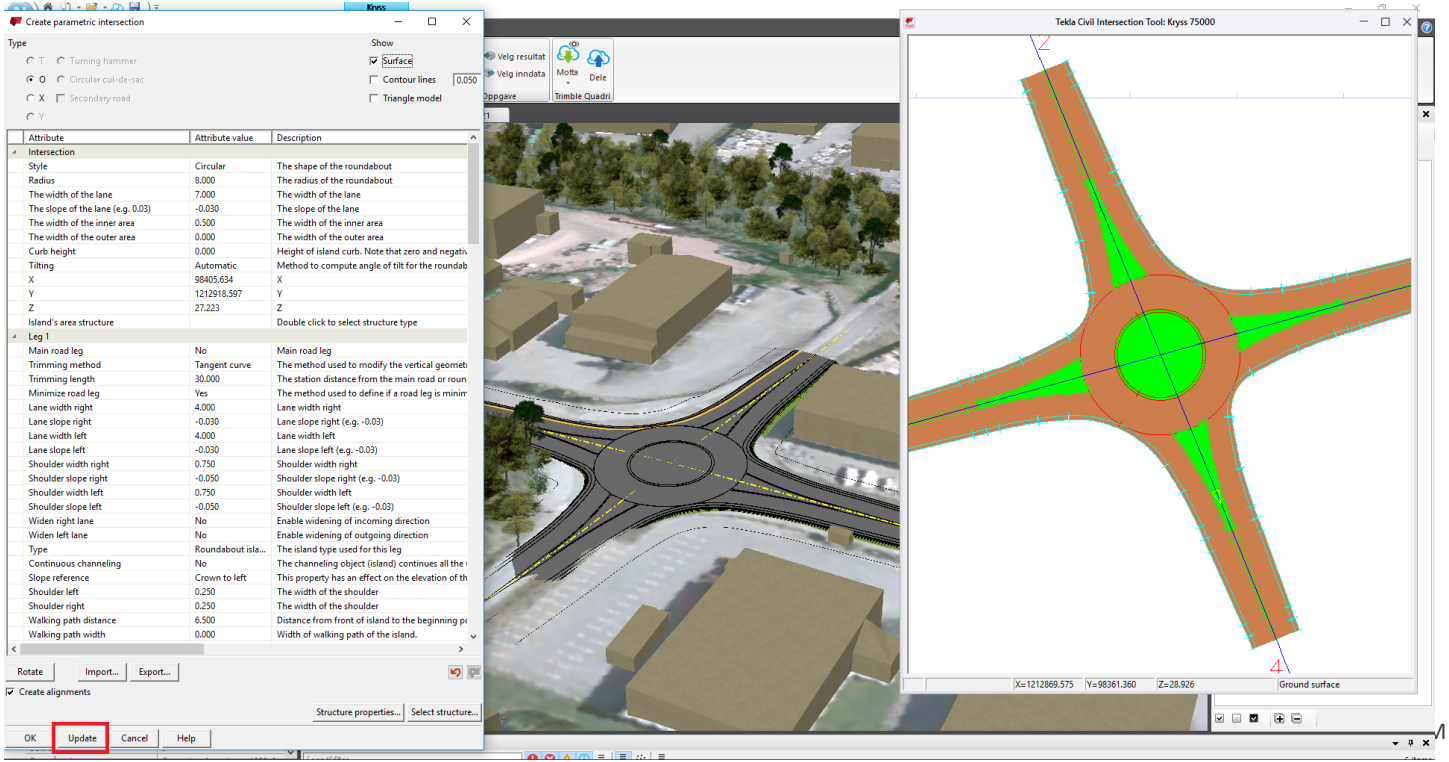
3-2) Base 2	Delta z	0.10000
3-3) Base 3	Delta z	0.10000
4-1) Sub-base 1	Delta z	0.20000
4-2) Sub-base 2	Delta z	0.20000
4-3) Sub-base 3	Delta z	0.20000
5-1) Filter	Delta z	0.00100

3D kryssfunksjon – Overordnet planlegging

3D rundkjøring lagres til NP Basis. Endre parametere og velg **Update**

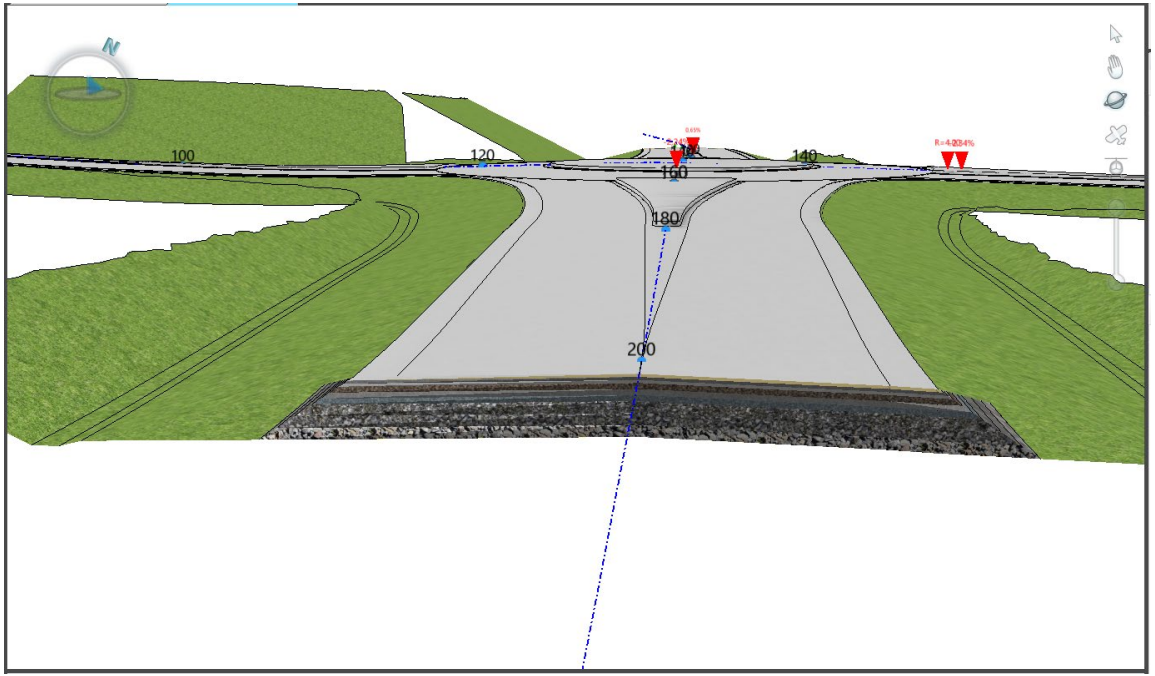


3D kryssfunksjon

Beregnet mot terreng:

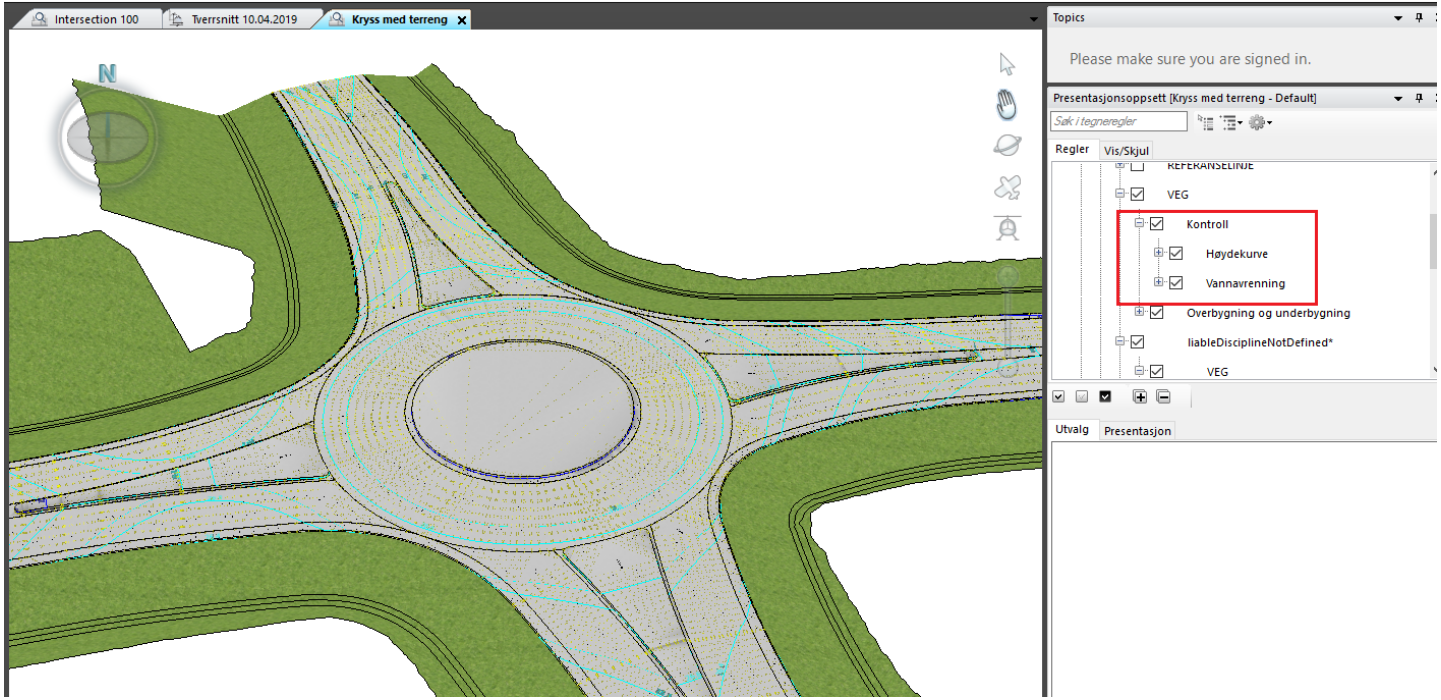
3D kryssfunksjon

Beregnet mot terreng:



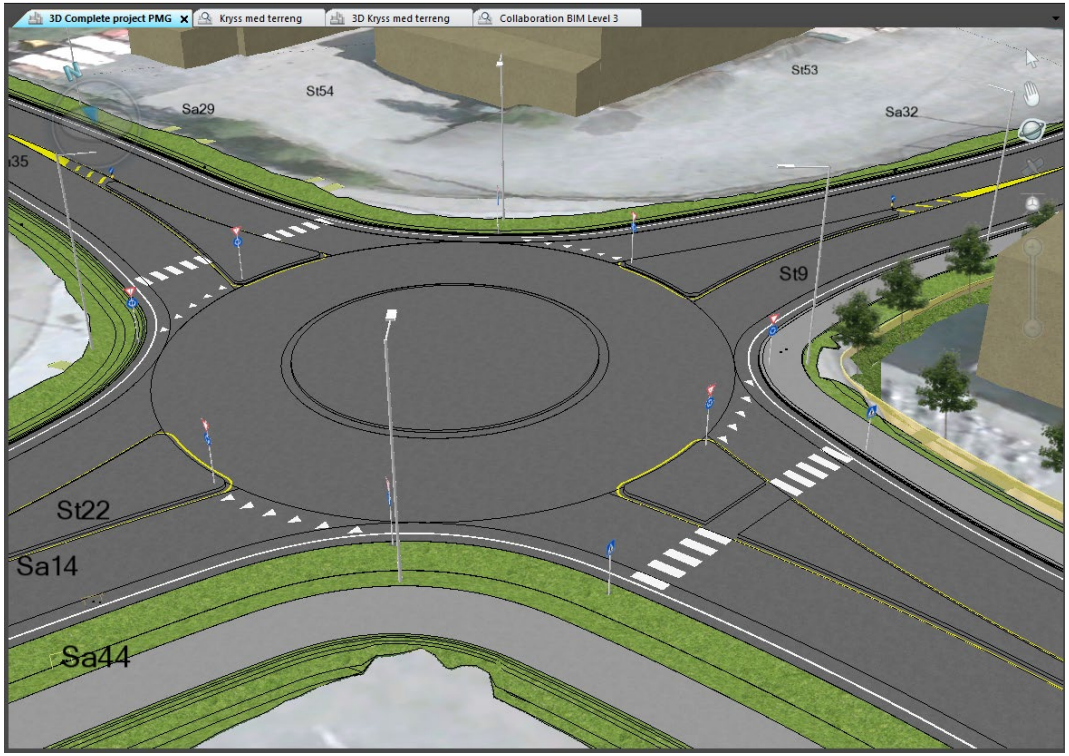
3D kryssfunksjon

….med analyse visning:

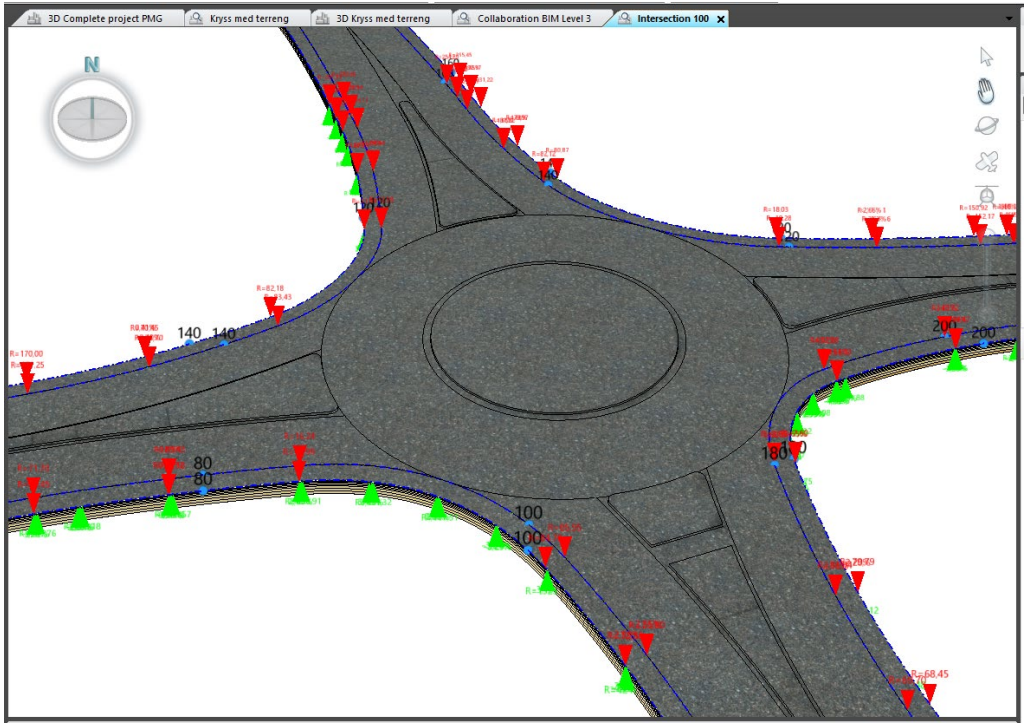


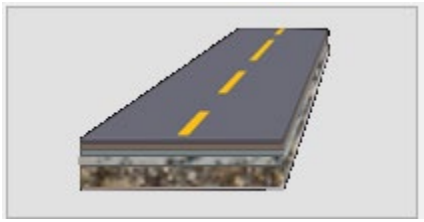
3D kryssfunksjon - Byggeplan

Definere kobling til terreng med egne vegmodeller:



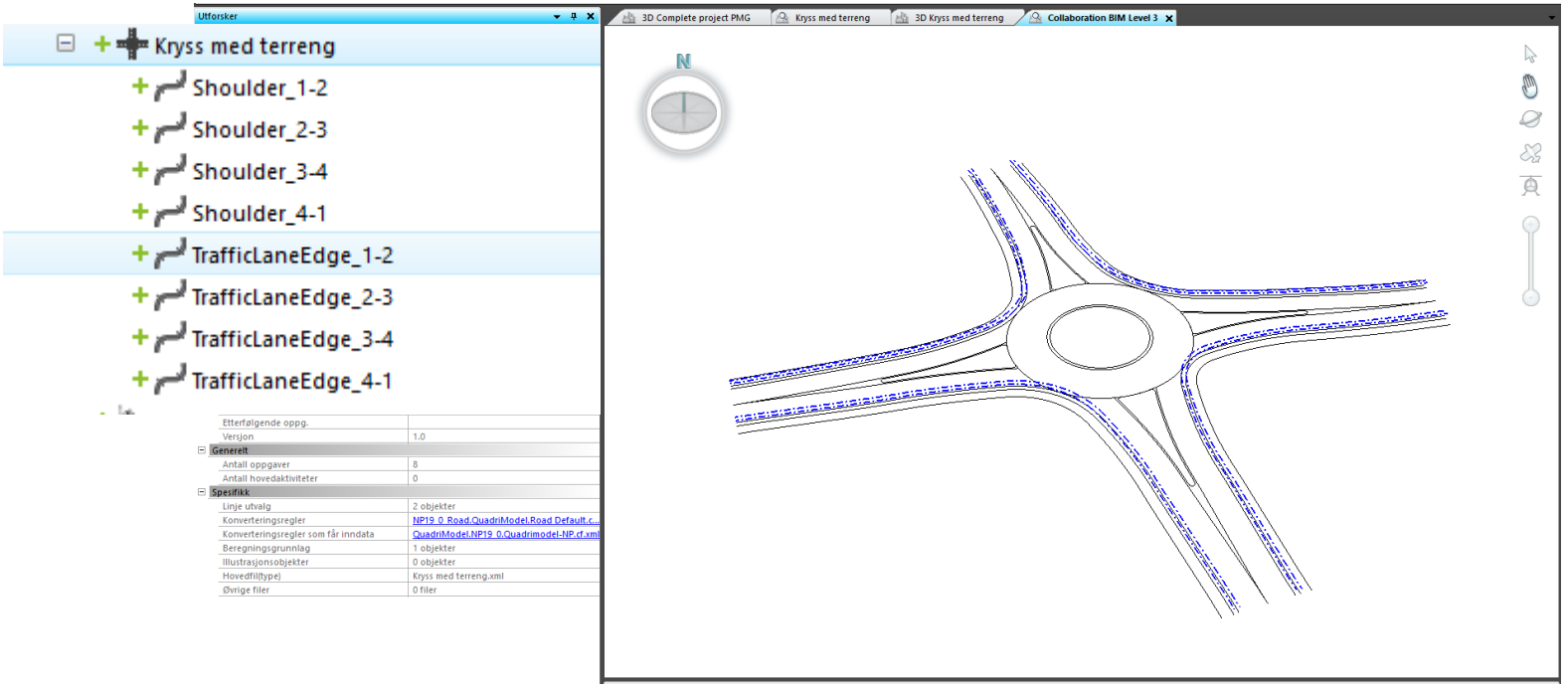
3D kryssfunksjon – Steg 1 – bygg trafikk område



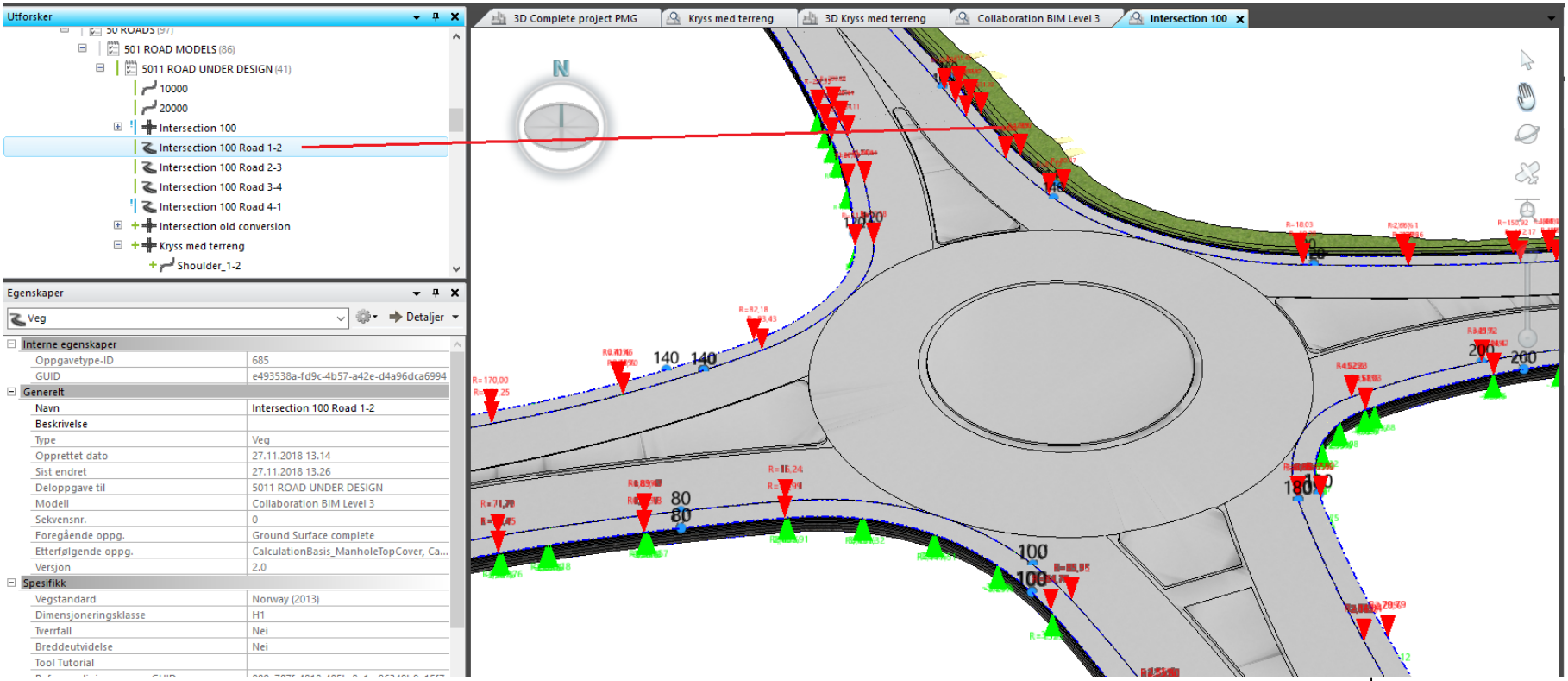


3D kryssfunksjon –

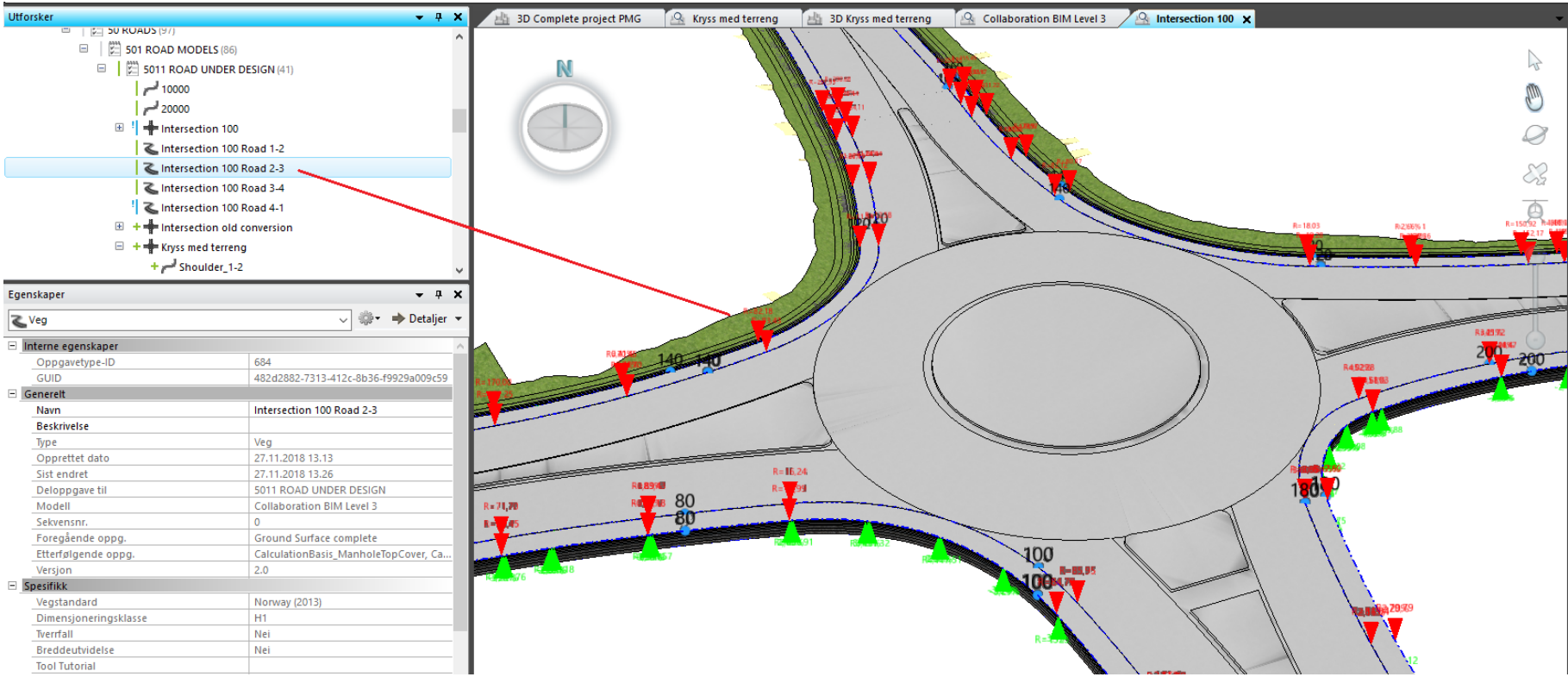
3D strengene er skapt automatisk, kantlinjene som egne oppgaver:



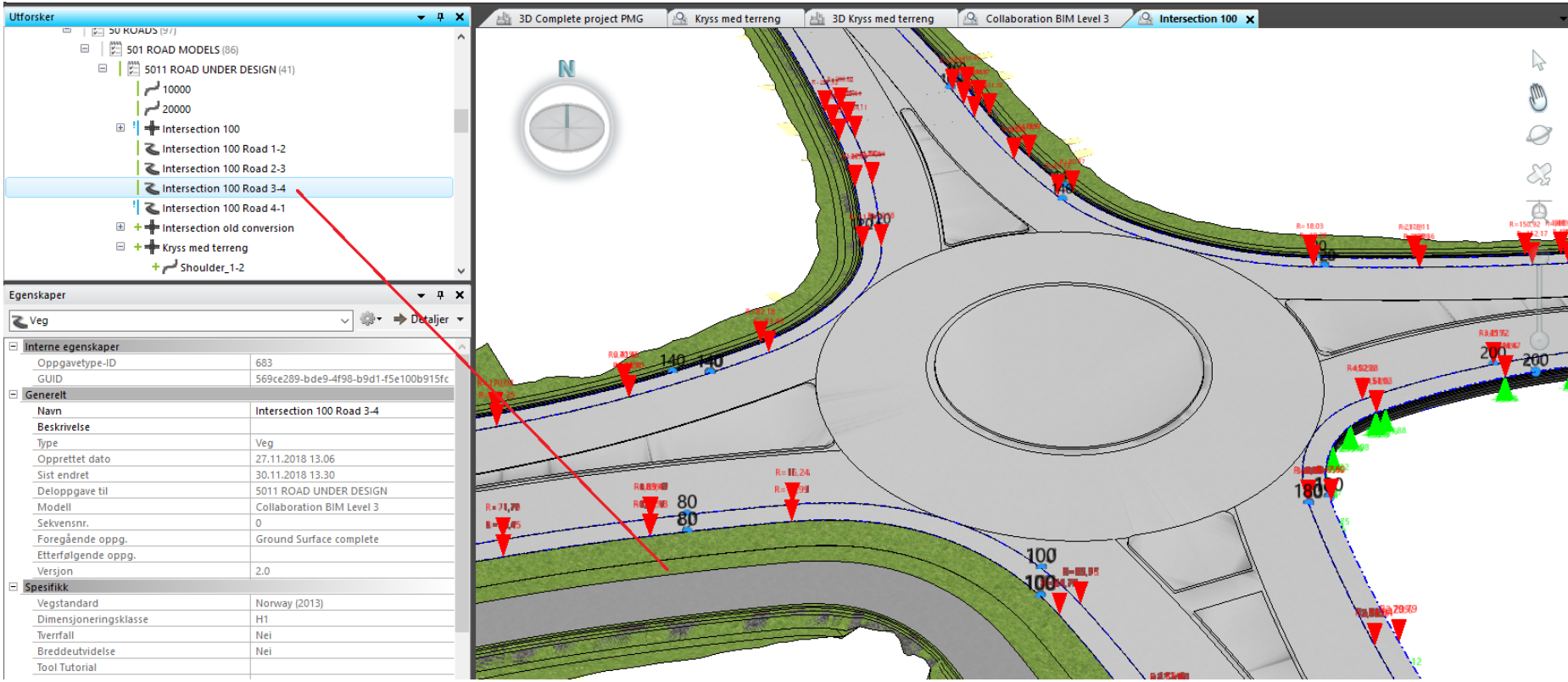
3D kryssfunksjon – Steg 2 bygg vegmodller



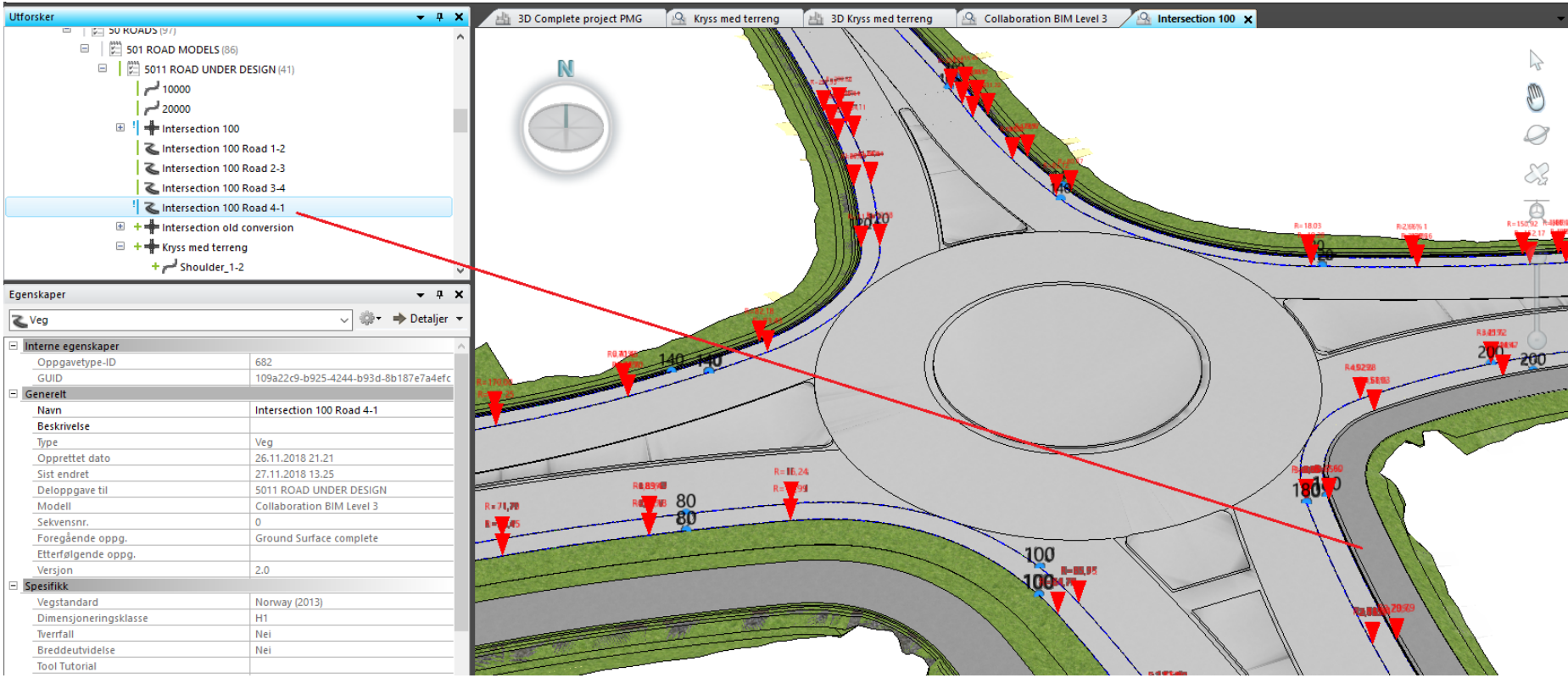
3D kryssfunksjon – Steg 2 bygg vegmodller



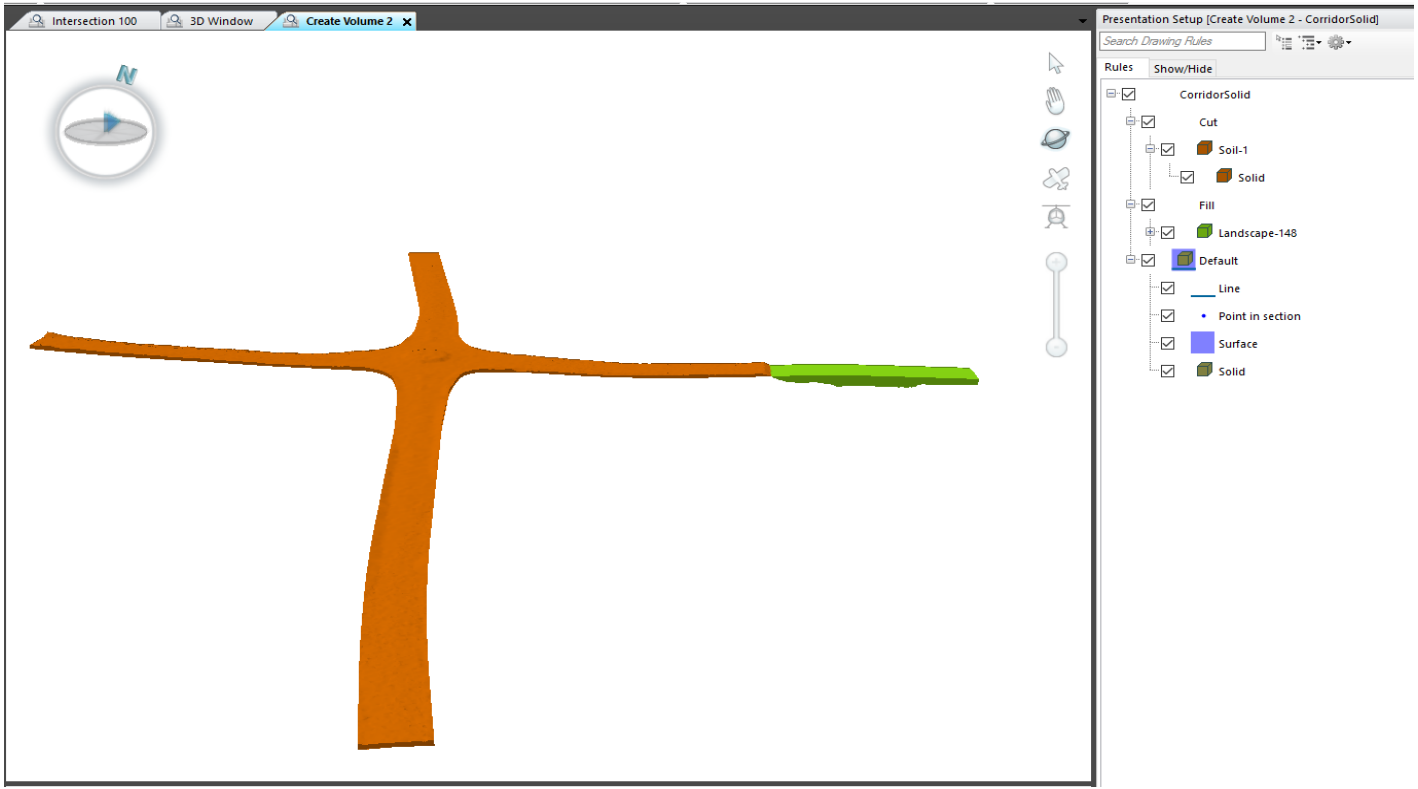
3D kryssfunksjon – Steg 2 bygg vegmodller



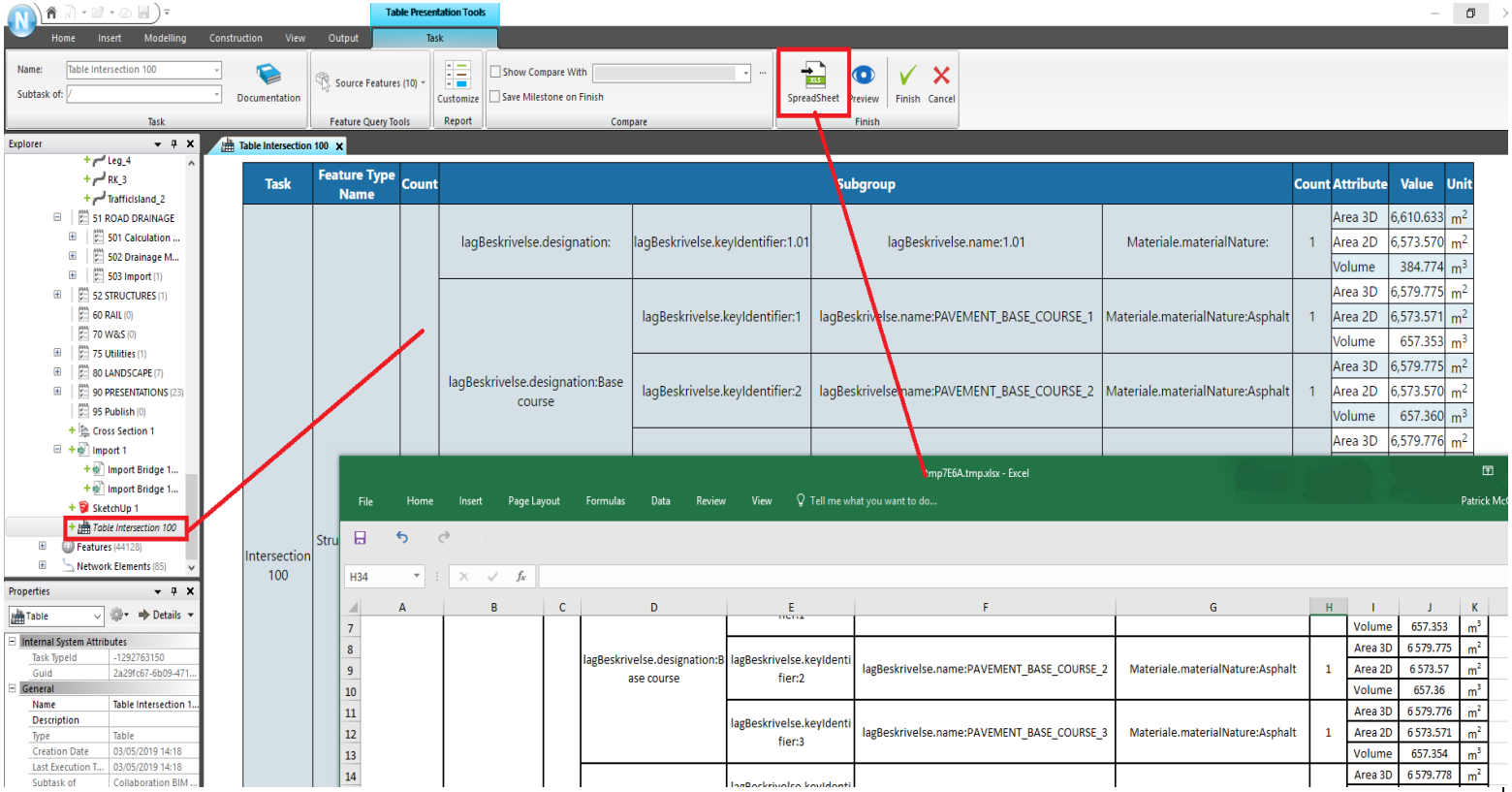
3D kryssfunksjon – Steg 2 bygg vegmodller



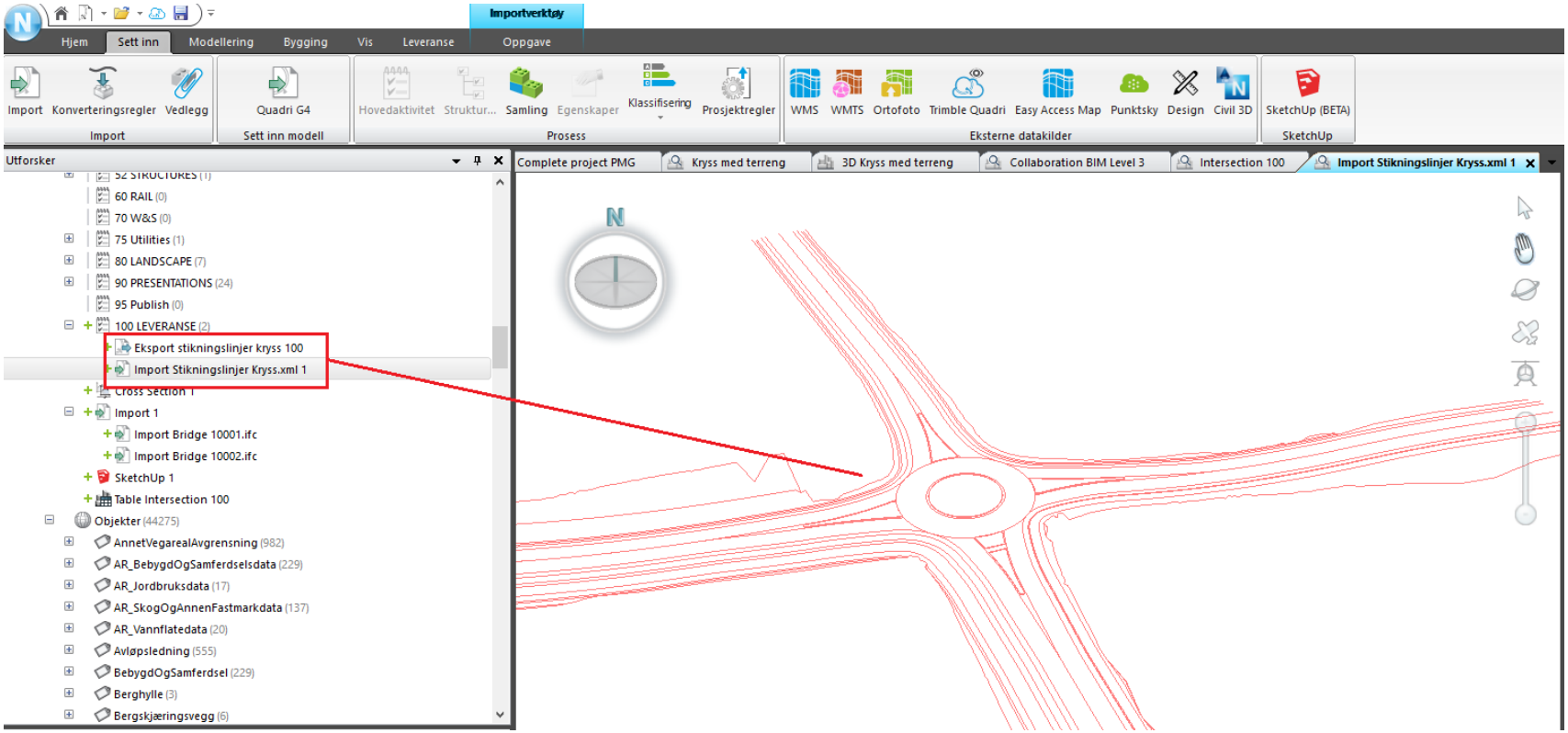
3D kryssfunksjon – Steg 3 Mengder



3D kryssfunksjon – Steg 3 Mengder



3D kryssfunksjon – Steg 4 Stikningsdata

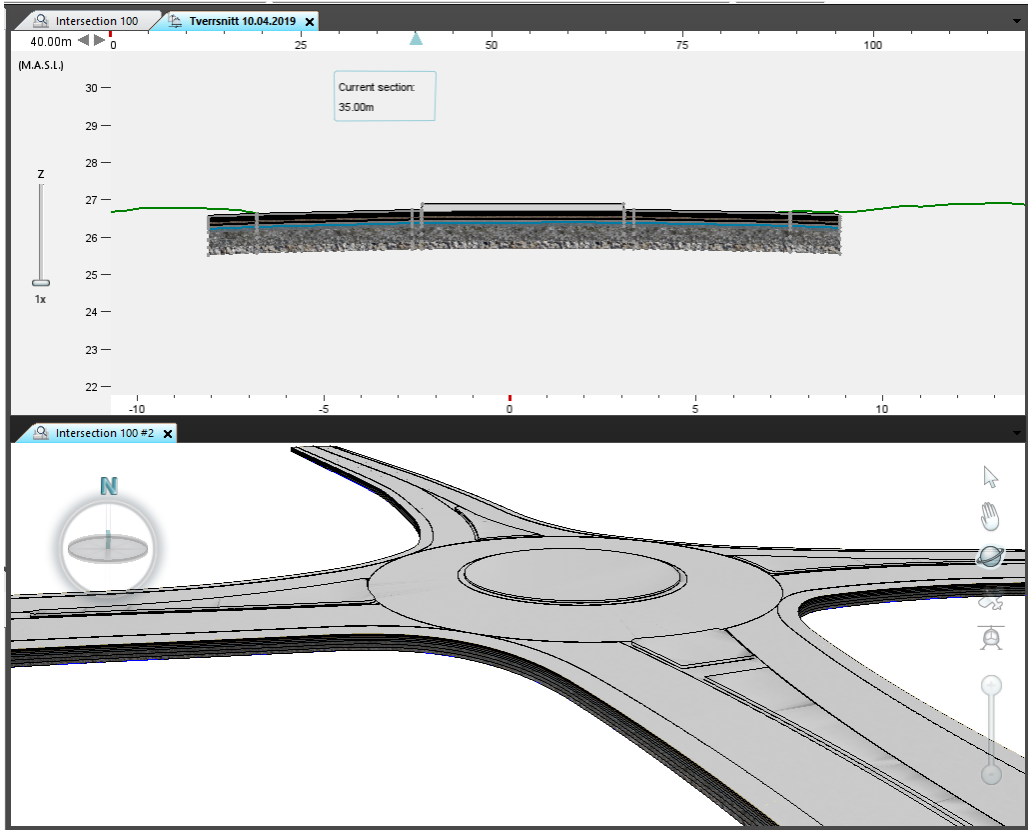


Ny kryssfunksjon

Begrensninger:

Man må gi inn vegbredde og skulder bredde for alle vegene
Skaper ikke solid objekter for skjæring/fylling
Støtter ikke lag i grunnen
Tilstøtende veger må tilpasses manuelt
Alt på engelsk foreløpig

Ny kryssfunksjon - DEMO



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