

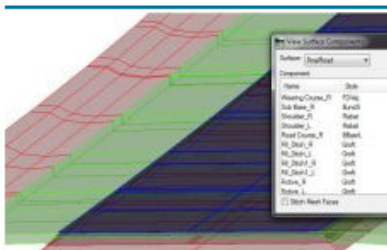
Nordic Civil User Conference 2019

E5 - The Danish ORD workspace

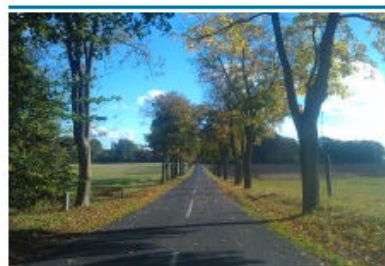
The Danish dataset for OpenRoads Designer contains settings adjusted to use DDA-levels and the Danish road and rail design standards.

Join this session to learn the latest news and how to adapt the Danish workspace to your company workspace.

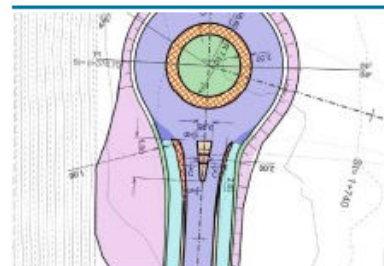
Marianne Rask



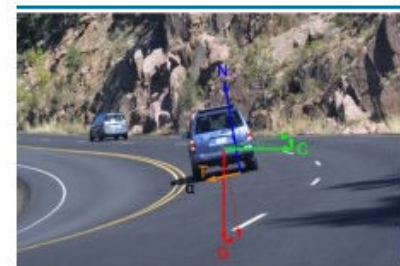
CAD STANDARD



TRAFIKSIKKERHED &
TILGÆNGELIGHED



PROJETERING



VEJLEDNING &
UNDERVISNING

Datasets for several versions

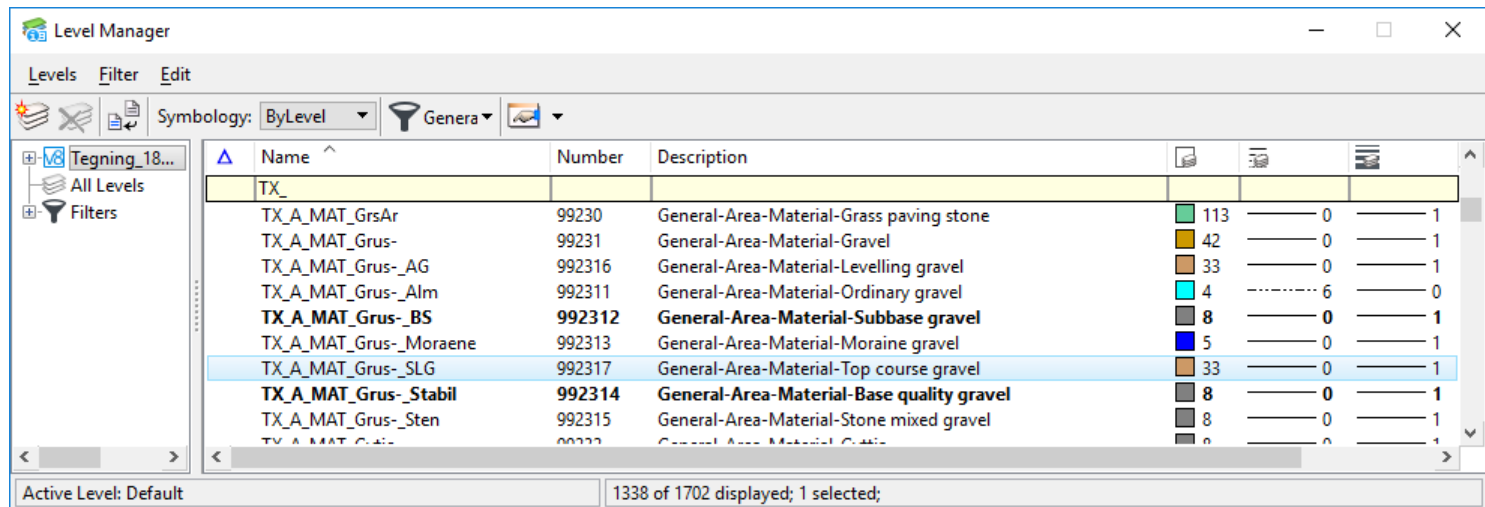
- Bentleyuser.dk > Standarder > Download > **InRoads**:
 - “InRoads V8i (SS2/SS4) preferencepakke” (2017-05-31)
 - For InRoads SS2 (software unavailable for download)
 - “PowerCivil SS4 preferencepakke”
 - For PowerCivil SS4 V.08.11.07.614 (2013-02-01)
 - For PowerRailTrack SS4 V.08.11.09.903 (2018-04-30)



- Bentleyuser.dk > Standarder > Download > **OpenRoads**:
 - “Danish dataset for ORD Upd. 4 and newer” (2019-11-07)
 - For OpenRoads Designer CE Update 4 and newer
 - For OpenRail Designer CE Update 4 and newer

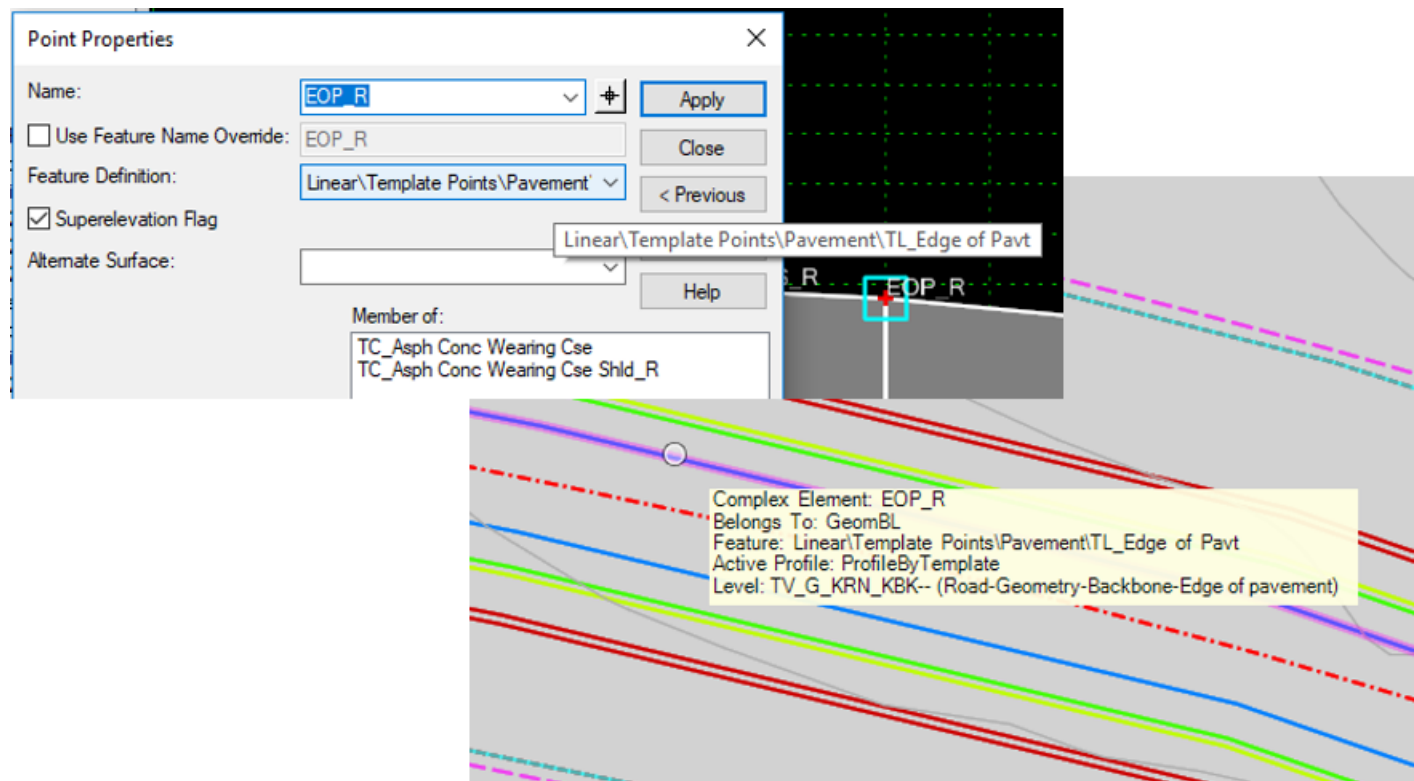
New DDA-levels underway

- **TA & TF** - Drainage and utilities
 - Major update
- **TR** – Rail
 - Major update
- **TX** – General
 - Some additions and corrections
- **TV** – Road
 - Some additions and corrections
- **TC** – Administration
 - Some additions and corrections
- **TK** – Mapping
 - Some additions and corrections
- **TT** – Tunnel
 - Some additions and corrections



Moving from InRoads and PowerCivil to OpenRoads Designer/OpenRail Designer

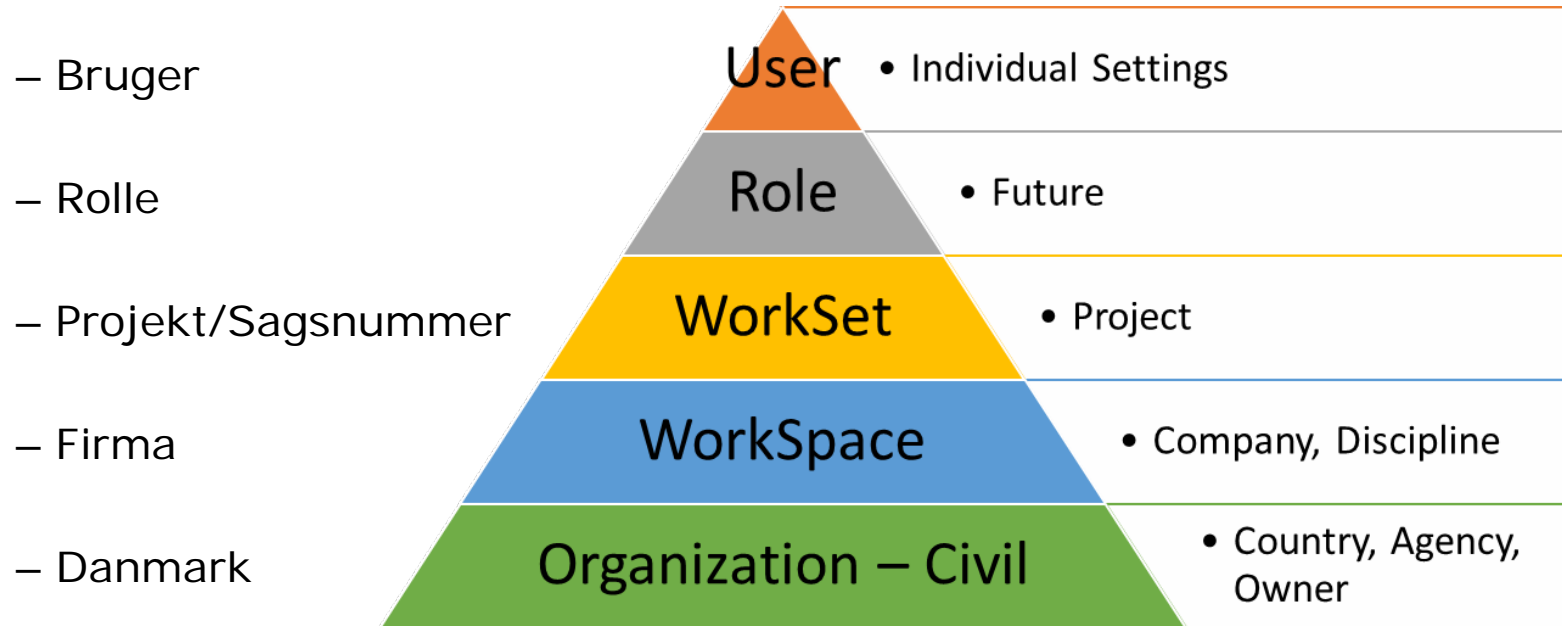
- New interface
- New Feature names



- New way of modelling

WorkSpace – Structure

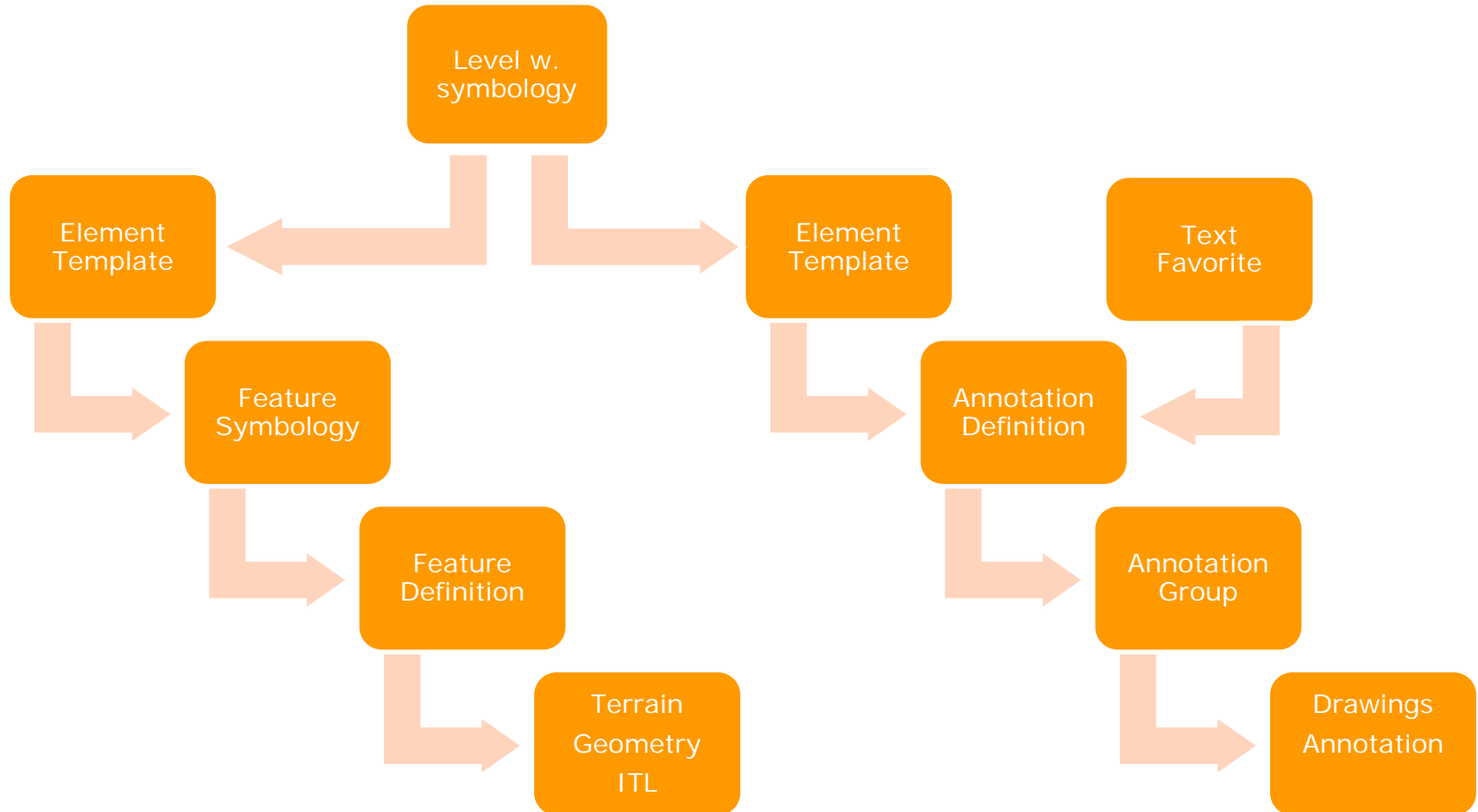
- Workspace levels:



- Danish Country Kit for ORD:

- **Organization – Civil** = Denmark Standards
- **WorkSpace** = BentleyUserDK or <Company name>
- **WorkSet** = your company standard for project naming/numbering

Relations in the ORD setup



The Danish ORD workspace

– Enhancements since last year

- More Feature Definitions, Feature Symbologies, Element Templates
- Prepared for updated DDA-levels
- ITL using the recommended FD
- “Danish” materials
- Slope signature
- More Text Favorites
- Annotation Groups for annotating centerline, cross sections etc.

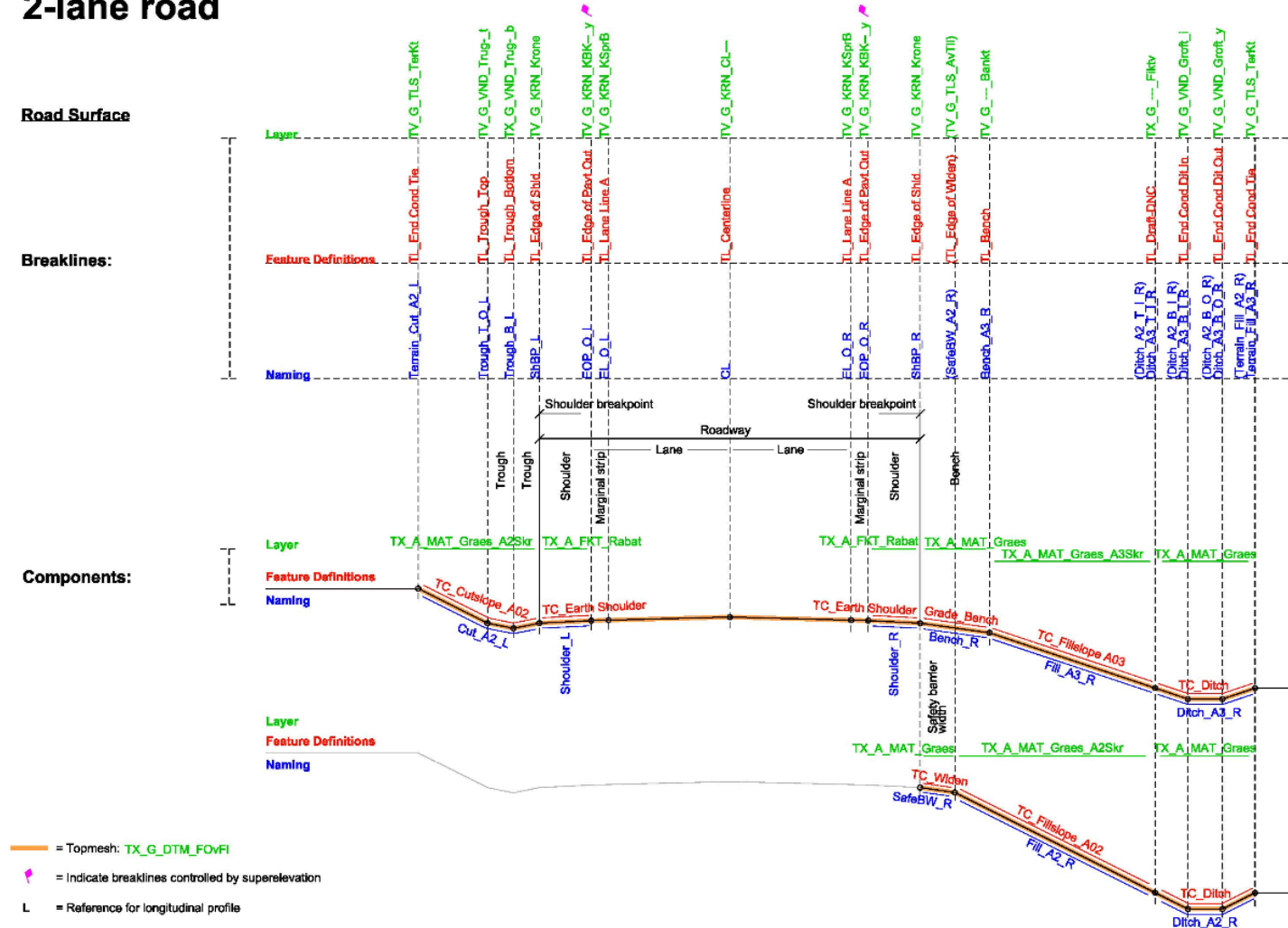
<p>DK_asphalt</p>  <p>DK_asphalt.png</p>	<p>DK_grass</p>  <p>DK_Grass.png</p>	<p>DK_Gravel</p>  <p>DK_Gravel.JPG</p>
 <p>DK_Asphalt_2.png</p>	 <p>DK_Asphalt_GAB.png</p>	 <p>DK_Asphalt_OB.png</p>
 <p>DK_Asphalt_PA.png</p>	<p>DK_CobbleStone</p>  <p>DK_CobbleStone.png</p>	<p>DK_SetStone</p>  <p>DK_SetStone.png</p>
<p>DK_Stone</p>  <p>DK_Stone.png</p>	<p>DK_Skaerver</p>  <p>DK_Skaerver.png</p>	<p>DK_Asphalt_Top</p>  <p>DK_Asphalt_Top.jpg</p>

Features to use for road design

- going to DDA TX- and TV-levels

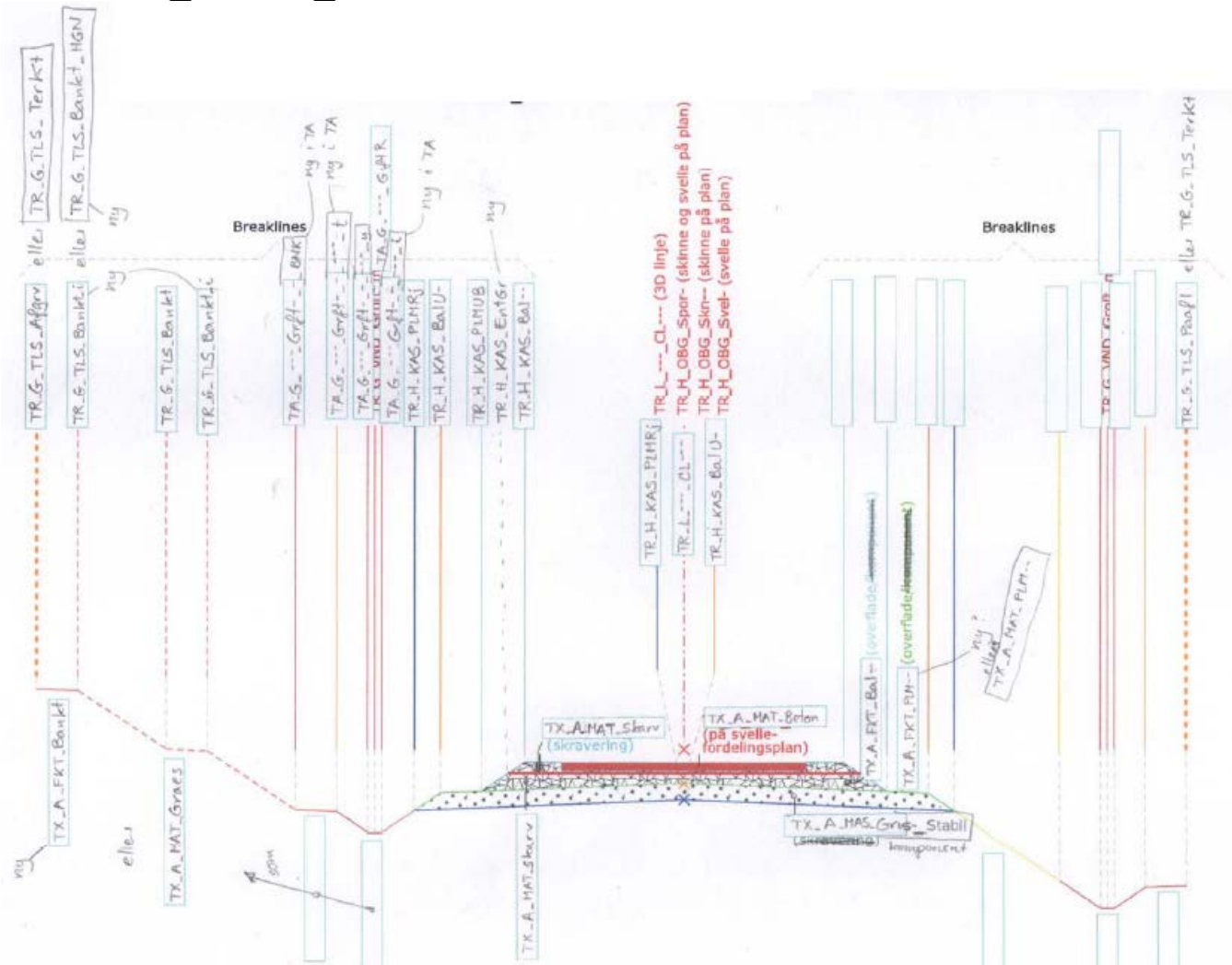
2-lane road

SD/15.08.2019



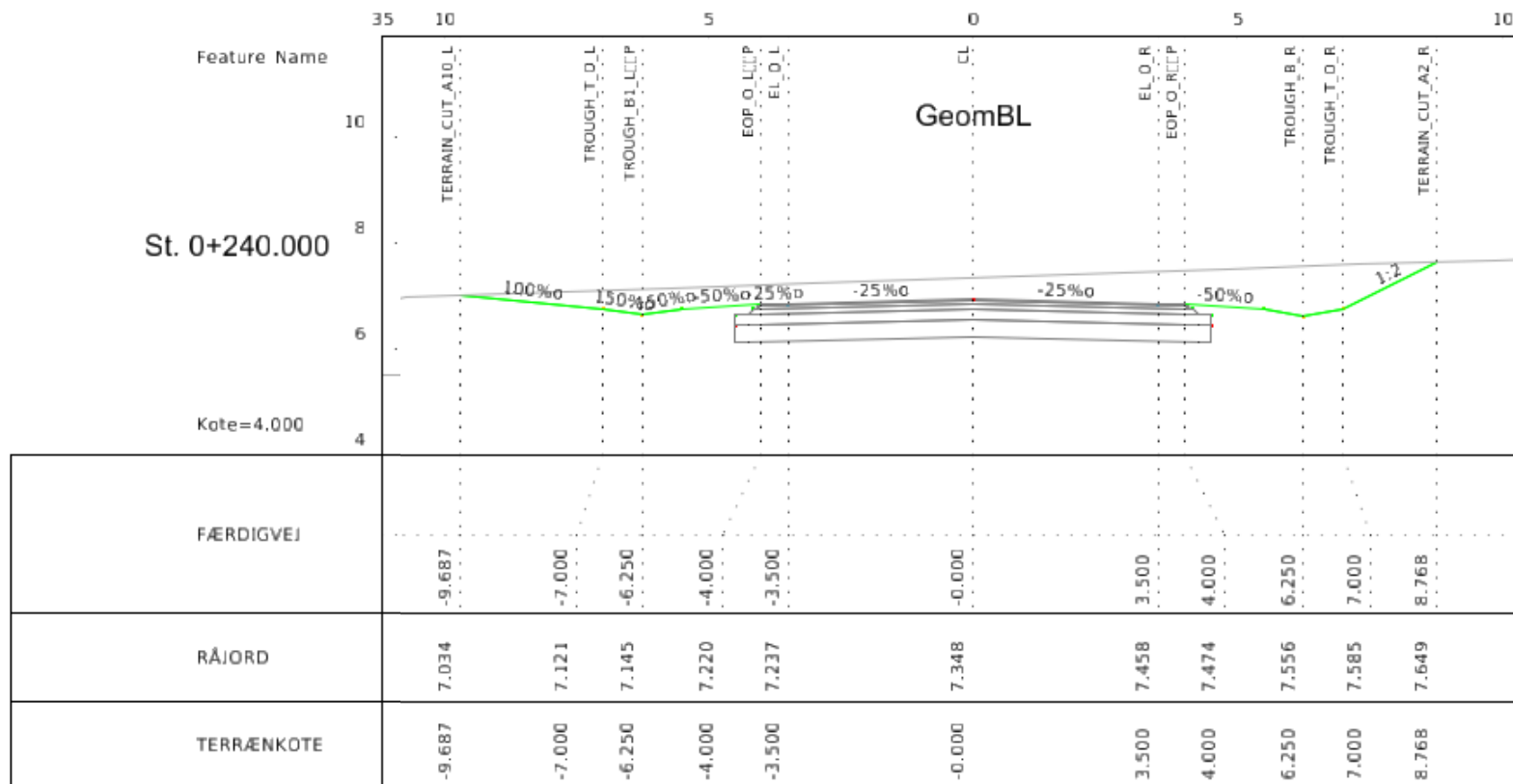
Features to use for rail design

- will be going to DDA TX- and TR-levels



Drawing setup

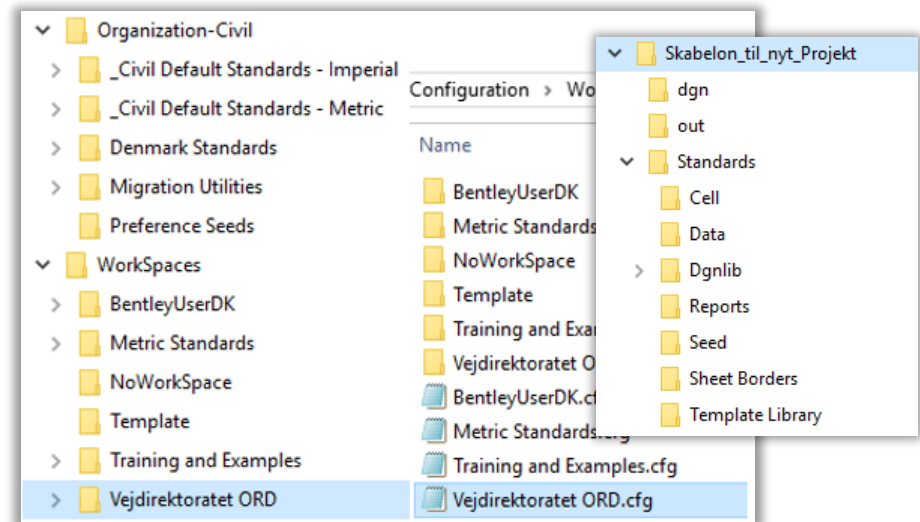
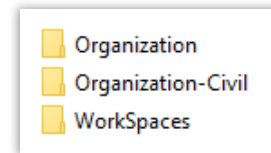
- Annotation Groups according to Vejdirektoratet
 - Stay for the next session by Signe from Vejdirektoratet



How to adapt the Danish workspace to your company workspace

1. Download the software
2. Download the Danish dataset
3. Install ORD/ORLD
4. Instal the Danish dataset
 - Unzip
 - Change configuration files
 - Put WorkSpace in place
 - Create a company WorkSpace
 - Create a WorkSet template
 - Change the WorkSet template
 - Add Bentley Training material
5. Create a new WorkSet
6. Use the workspace levels

DK_PROJECTS	=	E:/VEX/Kunde/
DK_CONFIG	=	E:/IT/CAD_Data/ORD/Configuration/
DK_CONFIG_ORG-CIV	=	\$(DK_CONFIG)Organization-Civil/



• Note: This works outside of ProjectWise!

Additional Features for Company (WorkSpace) & Project (WorkSet)

- Organization (Denmark)

Windows (C:) > ProgramData > Bentley > OpenRoads Designer CE > Configuration > Organization-Civil > Denmark Standards > Dgnlib > Feature Definitions

Name	Date modified	Type	Size
Level	2018-04-25 08:19	File folder	
Rail	2018-04-25 08:19	File folder	
Subsurface	2018-04-25 08:19	File folder	
DK_Dim_Styles.dgnlib	2018-04-24 12:13	Bentley MicroStati...	65 KB
DK_Feature_Definitions_DDA.dgnlib	2018-07-06 17:35	Bentley MicroStati...	466 KB
DK_Text_Favorites_Text_Styles_Dimension_Styles.dgnlib	2018-04-24 12:13	Bentley MicroStati...	222 KB
DK_Text_Styles.dgnlib	2018-04-24 12:13	Bentley MicroStati...	63 KB

- WorkSpace (Company/Discipline)

Windows (C:) > ProgramData > Bentley > OpenRoads Designer CE > Configuration > WorkSpaces > BentleyUserDK > Standards > Dgnlib > Feature Definitions

Name	Date modified	Type	Size
Company_Feature_Definitions.dgnlib	2018-07-06 17:35	Bentley MicroStati...	466 KB
Readme.txt	2018-04-24 12:13	Text Document	1 KB

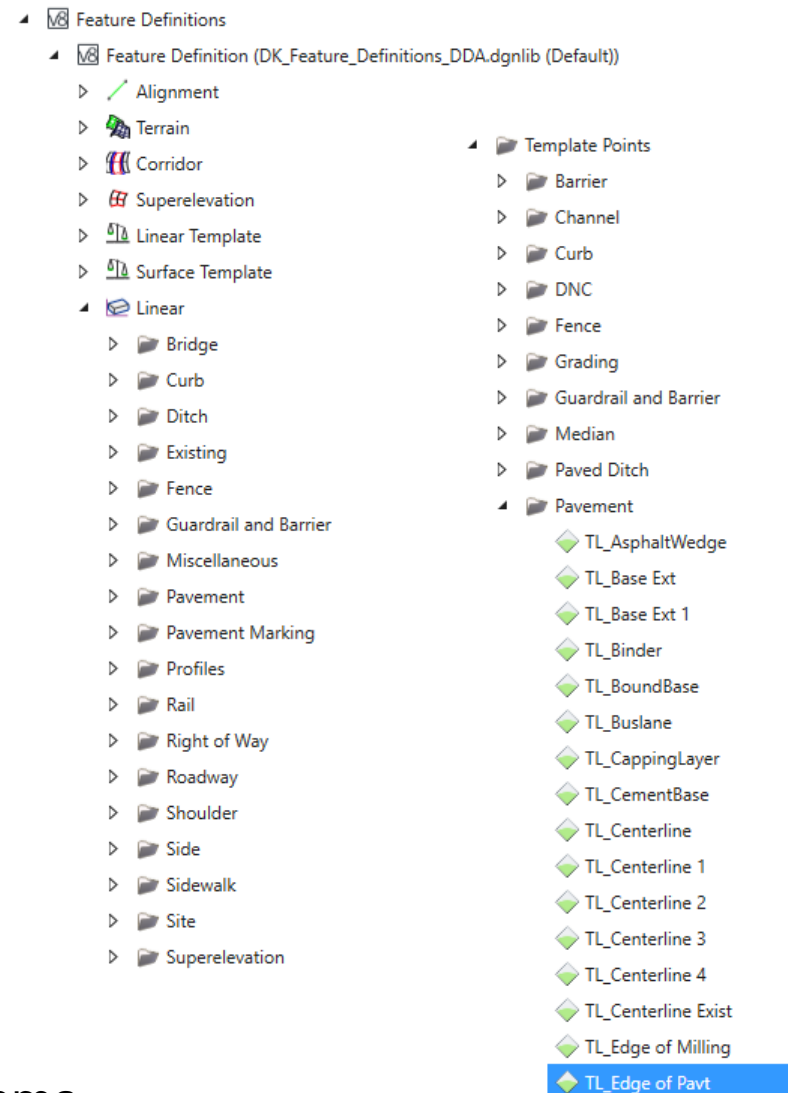
- WorkSet (Project)

DATA (E:) > VEX > Kunde > 2018-12_ORD-demo > Standards > Dgnlib > Feature Definitions

Name	Date modified	Type	Size
ProjectXYZ_Feature_Definitions.dgnlib	2018-07-06 17:35	Bentley MicroStati...	466 KB

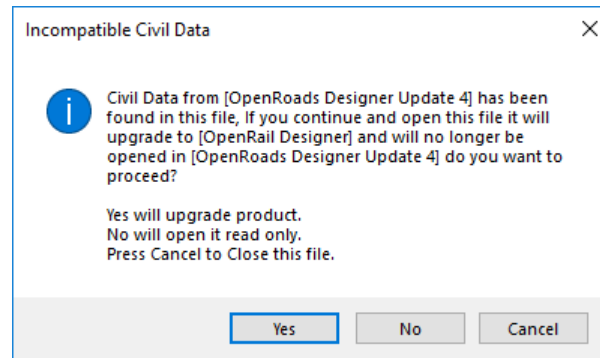
Recommendation

- Use the Features from the Danish workspace as much as possible
 - It will have FDs (and in time; annotation) recommended by Vejdirektoratet
- If you create your own FDs then use the same folder structure and naming convention (e.g. FD: *Linear\Template Points\Pavement\TL_Edge of Pavt Gravel*)
- Standards for ORD/ORLD created in a certain version will not be read when working in an older version
- Decimal separator – use period, not comma



Upgrading the software

- Beware: When the new Update is installed, you cannot (easily) go back to older versions.
- Standards created in an earlier version may be used.



1. Copy the 2 CFG-files ConfigurationSetup.cfg and WorkspaceSetup.cfg in C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration\ to *.bak.
2. Install the new ORD/ORLD Update.
3. Rename the 2 new cfg's to *.org.
4. Rename the 2 *.bak files (containing your own setup) to *.cfg.
5. Start ORD/ORLD and make sure that the Workspace BentleyUserDK (or <COMPANYNAME> is present.
6. Upgrade your DGNfiles or start a new project (WorkSet).

The Danish ORD workspace

- Wish-list for future changes

- Setup of new functions and Civil Cells since Update 4 (V10.04)
 - depends on Bentley funding
- Updated DDA-levels (TF, TA, TR & TX, TV, TC, TK, TT)
 - expected summer 2020
- Named Boundary drawing setup (sheet seeds, sheet borders etc.)
 - depends on Bentley funding
- Rail turnouts and Reports
 - depends on Civil SIG, Rail sub group
- SUDA/SUE Features
 - depends on Civil SIG, Drainage sub group
- Graphical Filters based on TK-levels
 - depends on Bentley funding
- Graphical Interface template (ribbon)
 - depends on Bentley funding

Questions?



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