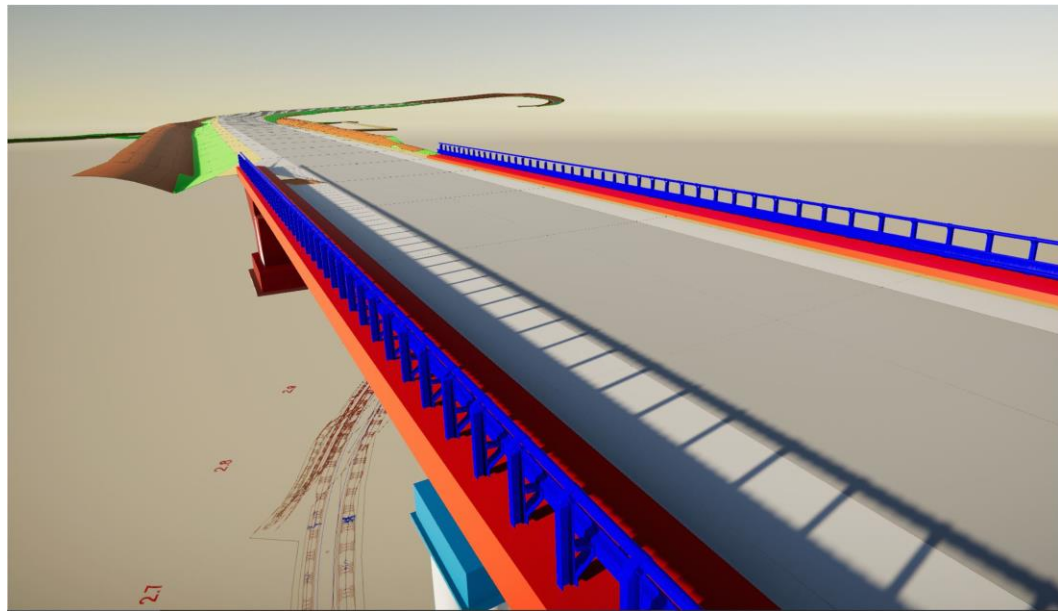




BIM 5D®

POŽADAVKY NA BIM - STRABAG



ZÁŘÍ 2021



STRABAG
TEAMS WORK.



BIM Use Cases and Detailed Use Cases

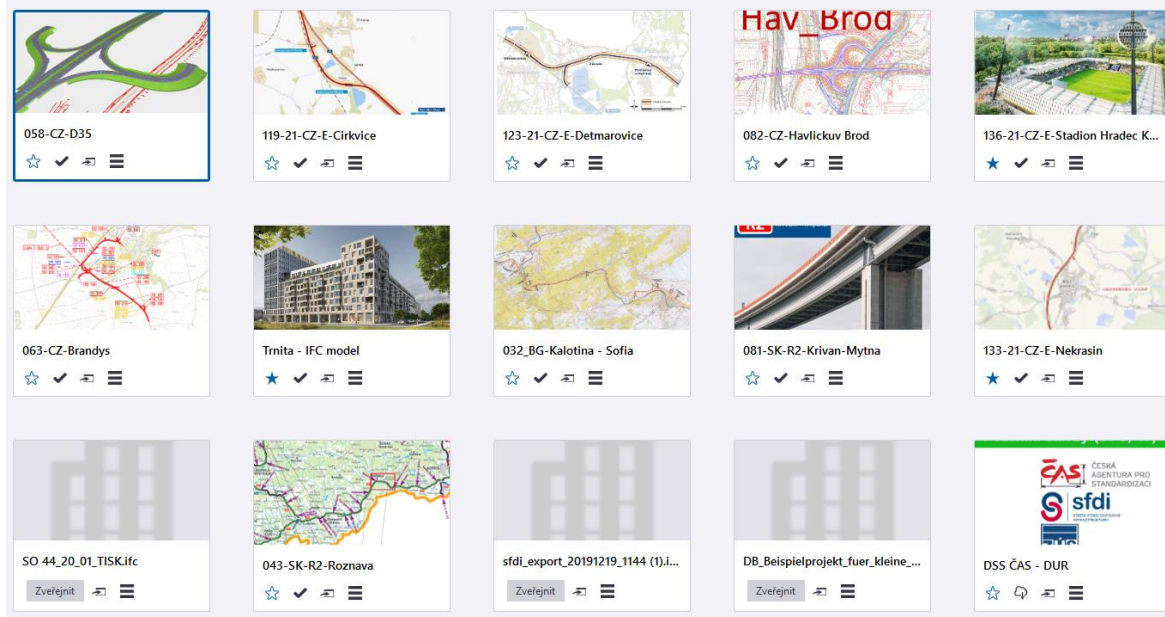
Title	Description for Client and Review	Detail UIC ID	Product	Status	Which activity?	For which purpose?	Detail Use Case Description	Associated Software
Use Case 1: Existing Conditions Modeling		UIC_001	Modeling	Complete	Yes	Existing geographical context	Use and integrate UIC 101 data to 3D model of site/plot.	Autodesk Civil 3D
Use Case 2: Design Options Analysis		UIC_002	Analysis	In Progress	Yes	Design options analysis	Use design options analysis to determine program 3D content.	Autodesk Civil 3D
Use Case 3: Construction		UIC_003	Construction	In Progress	Yes	Construction	Construction progress and preparation using various models (2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 25D, 26D, 27D, 28D, 29D, 30D, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 41D, 42D, 43D, 44D, 45D, 46D, 47D, 48D, 49D, 50D, 51D, 52D, 53D, 54D, 55D, 56D, 57D, 58D, 59D, 60D, 61D, 62D, 63D, 64D, 65D, 66D, 67D, 68D, 69D, 70D, 71D, 72D, 73D, 74D, 75D, 76D, 77D, 78D, 79D, 80D, 81D, 82D, 83D, 84D, 85D, 86D, 87D, 88D, 89D, 90D, 91D, 92D, 93D, 94D, 95D, 96D, 97D, 98D, 99D, 100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 112D, 113D, 114D, 115D, 116D, 117D, 118D, 119D, 120D, 121D, 122D, 123D, 124D, 125D, 126D, 127D, 128D, 129D, 130D, 131D, 132D, 133D, 134D, 135D, 136D, 137D, 138D, 139D, 140D, 141D, 142D, 143D, 144D, 145D, 146D, 147D, 148D, 149D, 150D, 151D, 152D, 153D, 154D, 155D, 156D, 157D, 158D, 159D, 160D, 161D, 162D, 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BIM 5D –PILOTNÍ PROJEKTY V CR A SR – TEAMS WORK.



• PILOTNÍ PROJEKTY – CZ/SK

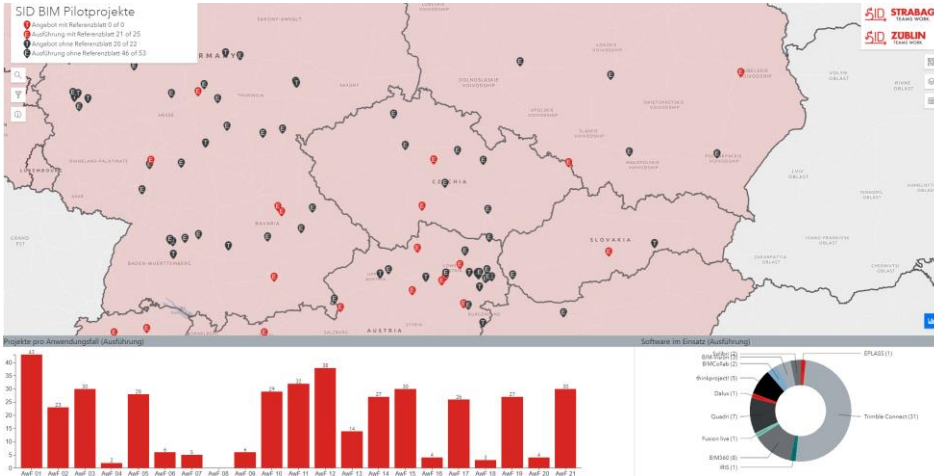
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- 046-19-SK-E-R2-SAKO
- 047-19-CZ-E-Kravaře
- 048-19-CZ-E-D1
- 058-19-CZ-E-D35
- 063-19-CZ-E-Brandýs
- 070-20-CZ-E-Skuhrov
- 081-20-SK-E-Krivan-Mytna
- 082-20-CZ-E-Havlickuv_Brod
- 103-20-CZ-E-Palac Trnita Brno
- 119-21-CZ-E-Cirkvice
- 123-21-CZ-E-Detmarovice
- 133-21-CZ-E-Nekrasin
- 136-21-CZ-E-Stadion Hradec Králové



BIM 5D[®] USE CASE MANAGEMENT



- Reflektuje procesní potřeby projektu
- Spolupráce s buildingSMART (ISO)
- Cíl - sjednocení pro celou EU
- Základ pro dokumenty BEP
- Postupná integrace do firemních standardů
- Každý UC s detailními podřízenými UC

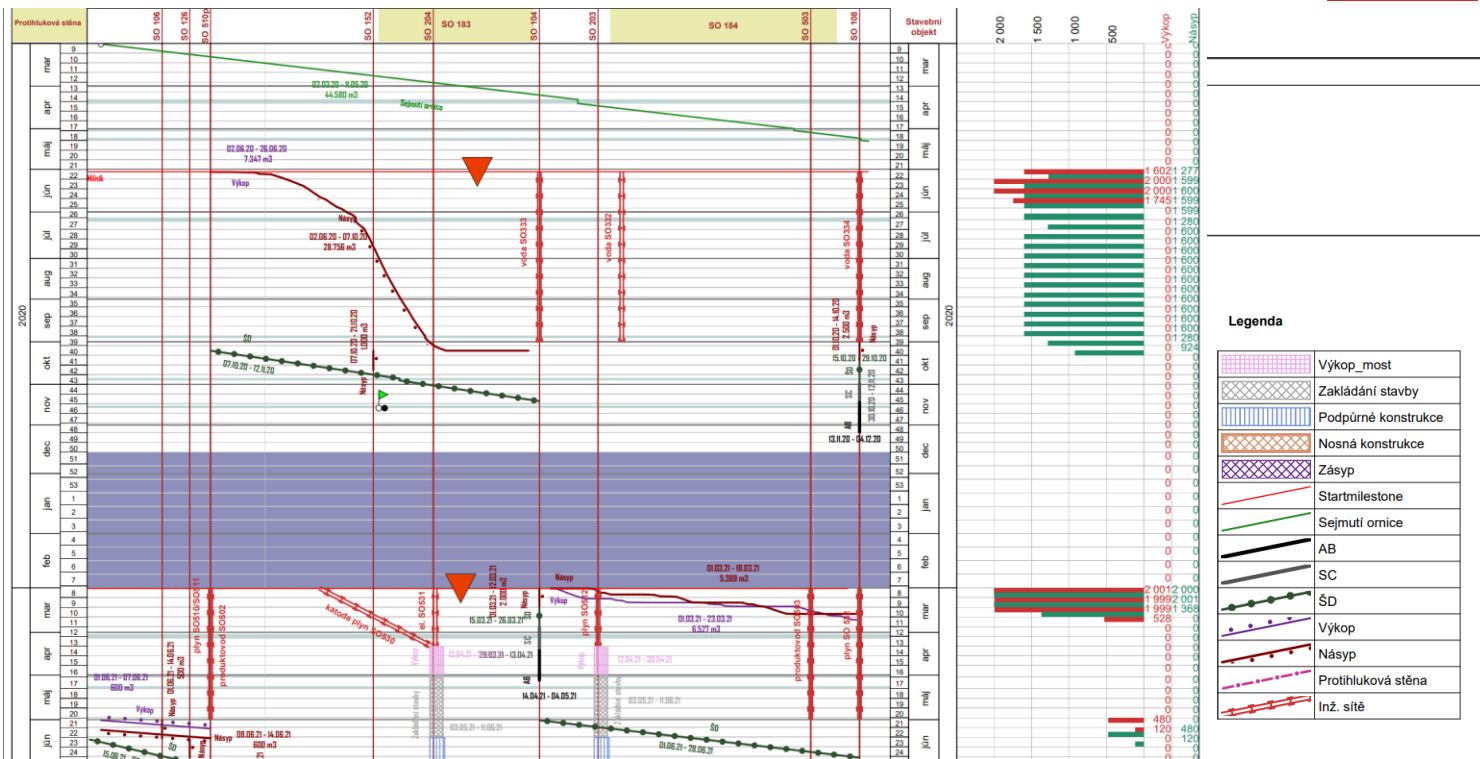


UC 1 Initial data collection
UC 2 Feasibility studies (investigation of the planning variants)
UC 3 Visualization
UC 4 Design and verification
UC 5 Coordination of the disciplines
UC 6 Control of the progress of design
UC 7 Creation of the drafts and design for approval
UC 8 Planning and testing of the work safety and occupation health
UC 9 Approval management
UC 10 Cost estimation and calculation
UC 11 Bill of quantities, submission, tendering
UC 12 Schedule planning and execution
UC 13 Logistic planning
UC 14 Preparation of the execution plans
UC 15 Control of the construction progress
UC 16 Change management for the changes in the plans
UC 17 Billing for construction services
UC 18 Defect management
UC 19 As-built documentation
UC 20 Use for operation and maintenance
UC 21 Machine control

ČLENĚNÍ A DĚLENÍ MODELŮ Z POHLEDU TVORBY ČASOVÉHO PLÁNU (4D)



- Výměry po staničení a s tím související přesnost časového a finančního plánu na straně zhotovitele, ale i zákazníka
- Možnost zobrazení histogramu kubatur – bilance zemin apod.
- Aktualizace na základě modelů
- Propojení s kalkulací (5D) a projektovým controllingem
- Porovnání plánu a skutečnosti

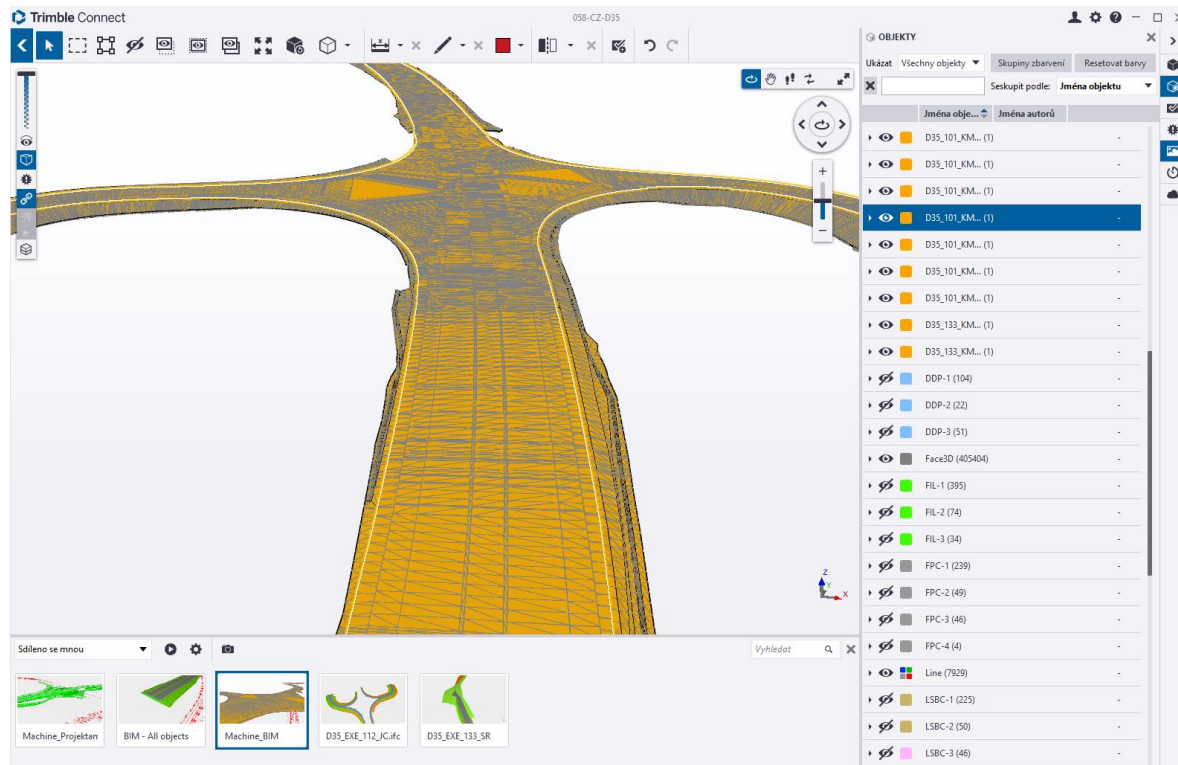
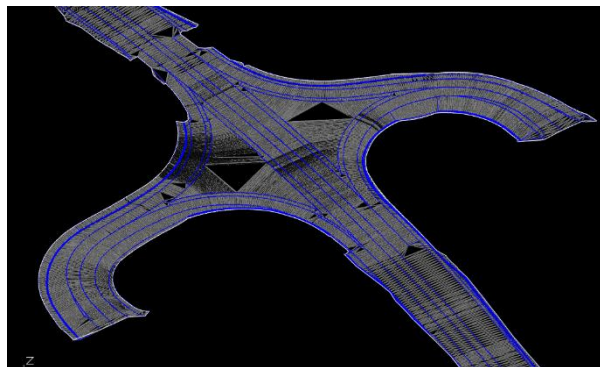


-
- The screenshot displays the BIMBA software interface, which is used for building information modeling and data management. The interface is divided into several main sections:
- Top Bar:** Contains the application name "BIMBA" and various icons for file operations, editing, and viewing.
 - Left Panel:** A navigation pane showing a hierarchical tree of the project structure, including elements like "Model", "Structure", and "Data".
 - Central Area:**
 - Top:** A table titled "Výběvová tabulka" (Equipment Table) listing various equipment items with their quantities and prices. The table has columns for "Objekt", "Množství", "Jednotka", and "Cena".
 - Bottom:** A 3D visualization of the building model, showing a green structure with a red coordinate system (X, Y, Z) at the base.
 - Right Panel:** A detailed view of a selected object, showing its properties and attributes. It includes a table of "Vlastnosti" (Properties) and a list of "Parametry" (Parameters).
- The interface is designed to provide a comprehensive overview of the building project, from the initial data entry to the final 3D visualization.

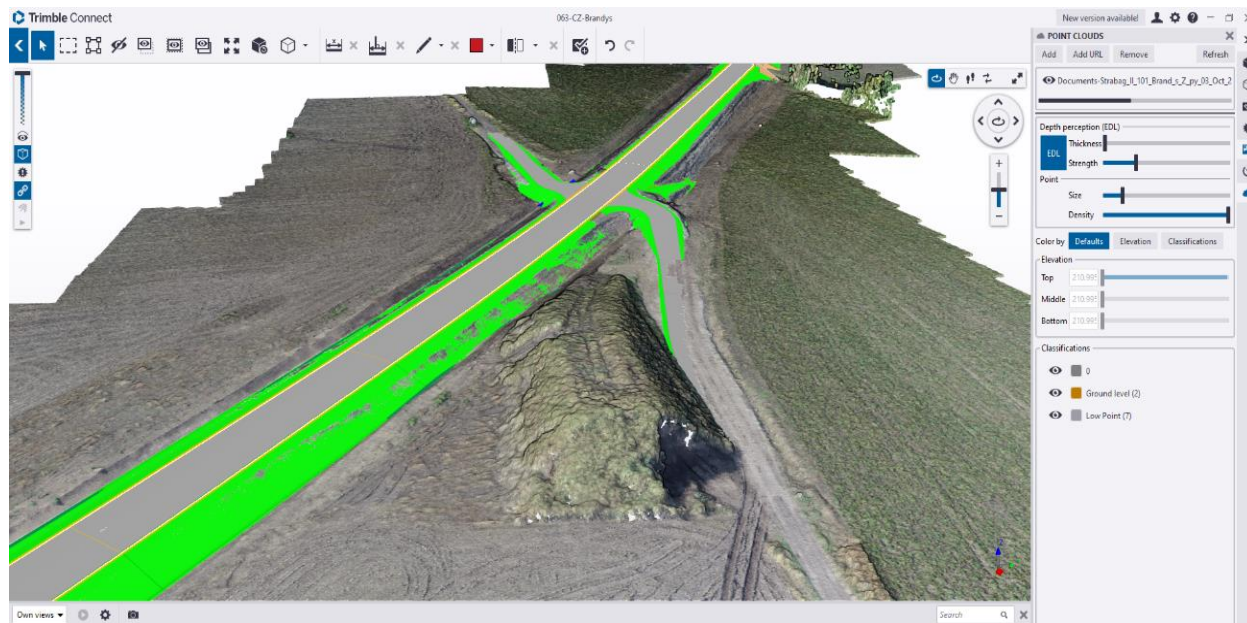
POŽADAVKY NA PŘESNOST BIM MODELŮ



- Podklady pro strojní navádění (staničení od 10m do 1m)
- Podklady pro porovnání plánovaného stavu a geodetického zaměření a z toho vyplývající model skutečného provedení (As-Built)
- Výkazy výměr (4D a 5D)
- Extrahování všech potřebných dat z modelu – princip jednoho zdroje pravdy
- Eliminace ZBV



POŽADAVKY NA UMÍSTĚNÍ STAVBY – GEOREFERENCOVÁNÍ (S-JTSK, BPV)



- Koordinace modelů z různých zdrojů
- Zobrazení v CDE systémech bez nutnosti dodatečných úprav
- Použití pro zprostředkovanou (rozšířenou) realitu (AR – Augmented reality)

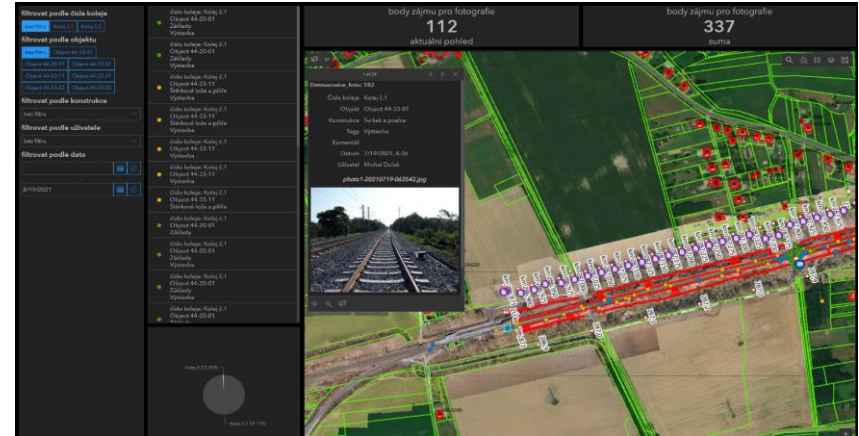
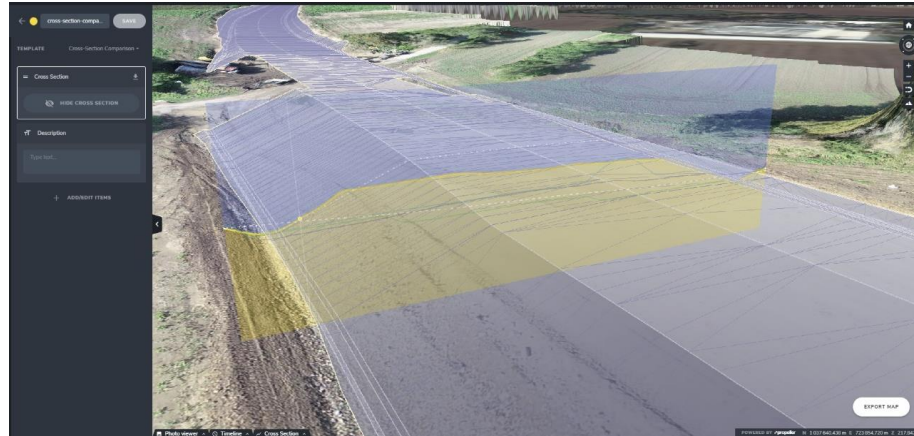
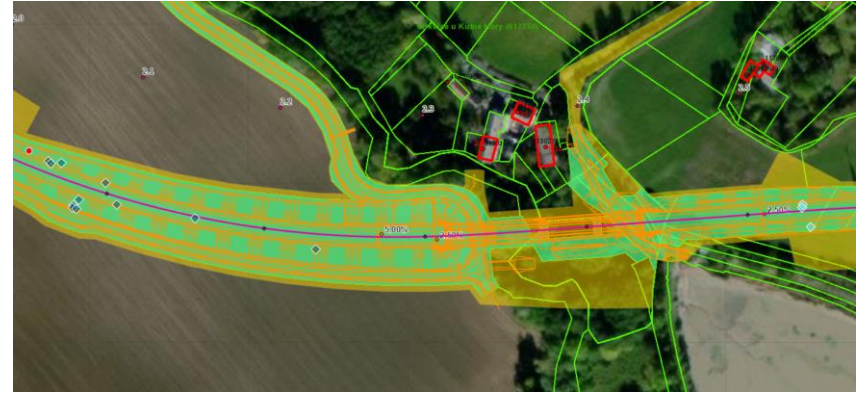


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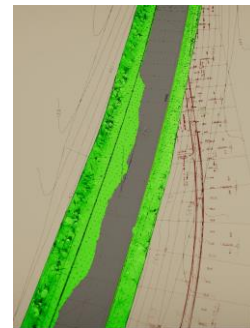
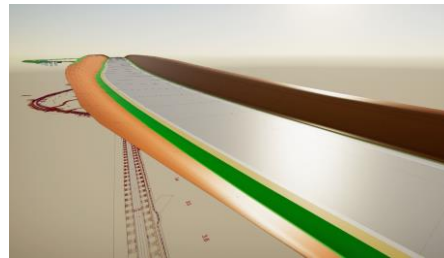
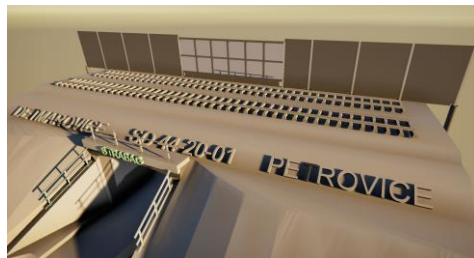
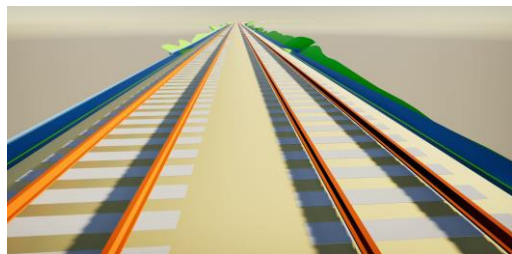
POŽADAVKY NA UMÍSTĚNÍ STAVBY – GEOREFERENCOVÁNÍ (S-JTSK, BPV)



- Použití v GIS systémech pro potřeby výstavby a propojení na CDE
- Porovnání plánu proti skutečnosti na základě modelu a dat získaných fotogrammetrií, laserovým skenováním nebo klasickým geodetickým zaměřením



OTÁZKY A ODPOVĚDI



DĚKUJI VÁM ZA POZORNOST

