Od papíru k datům

Digitalizace a informační modelování (BIM) v přípravě a realizaci staveb

Ing. Josef Žák, Ph.D.
Vedoucí oddělení VDC

SKANSKA

Agenda:

- Příklady BIM projektů
- Informační systémy
- Automatizace
- Použití na výstavbových projektech

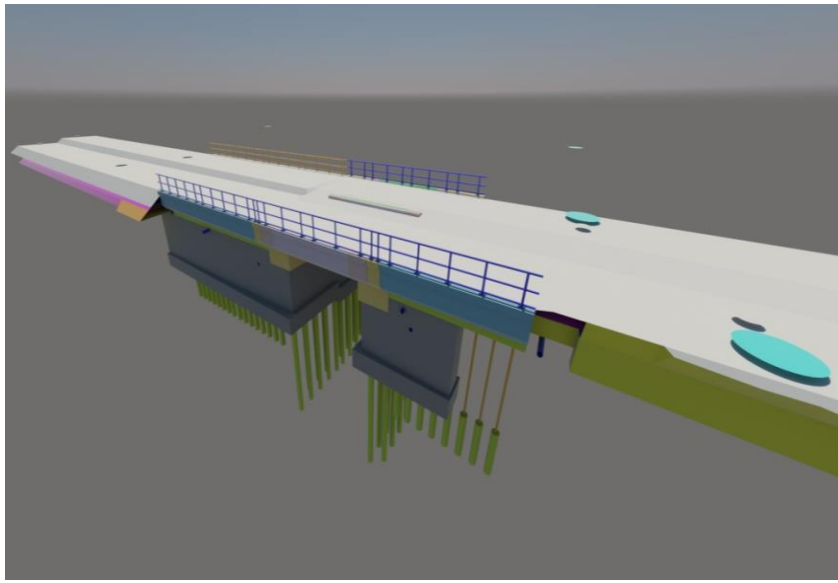
SKANSKA

Komerční development

Rezidenční development

SKANSKA

Dopravní stavby



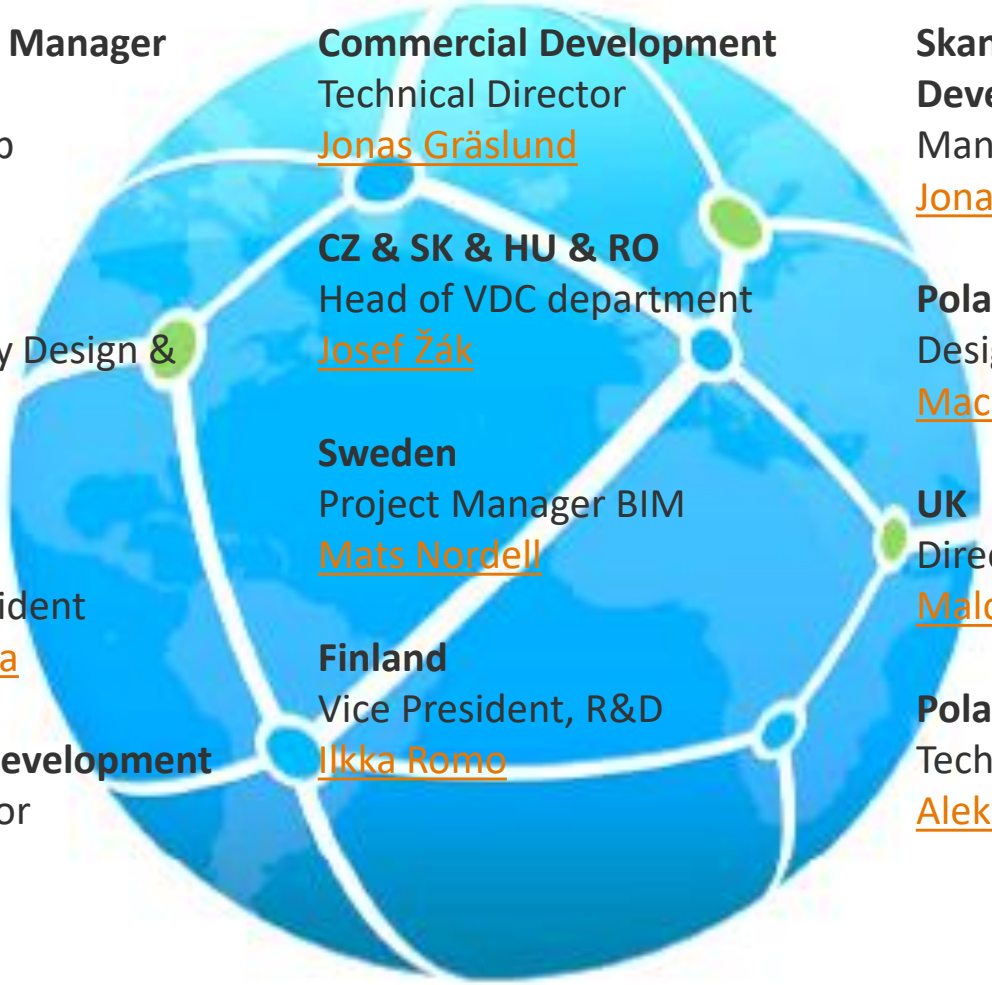
Skanska Global BIM Expert Group

BIM Knowledge Manager
Malcolm Stagg
Chair, BIM Group
Malcolm Stagg

USA Civil
Director - Facility Design & Consulting
Scott Albin

USA Building
Senior Vice President
Anthony Colonna

Infrastructure Development
Life Cycle Director
Julian Desai



Commercial Development
Technical Director
Jonas Gräslund

CZ & SK & HU & RO
Head of VDC department
Josef Žák

Sweden
Project Manager BIM
Mats Nordell

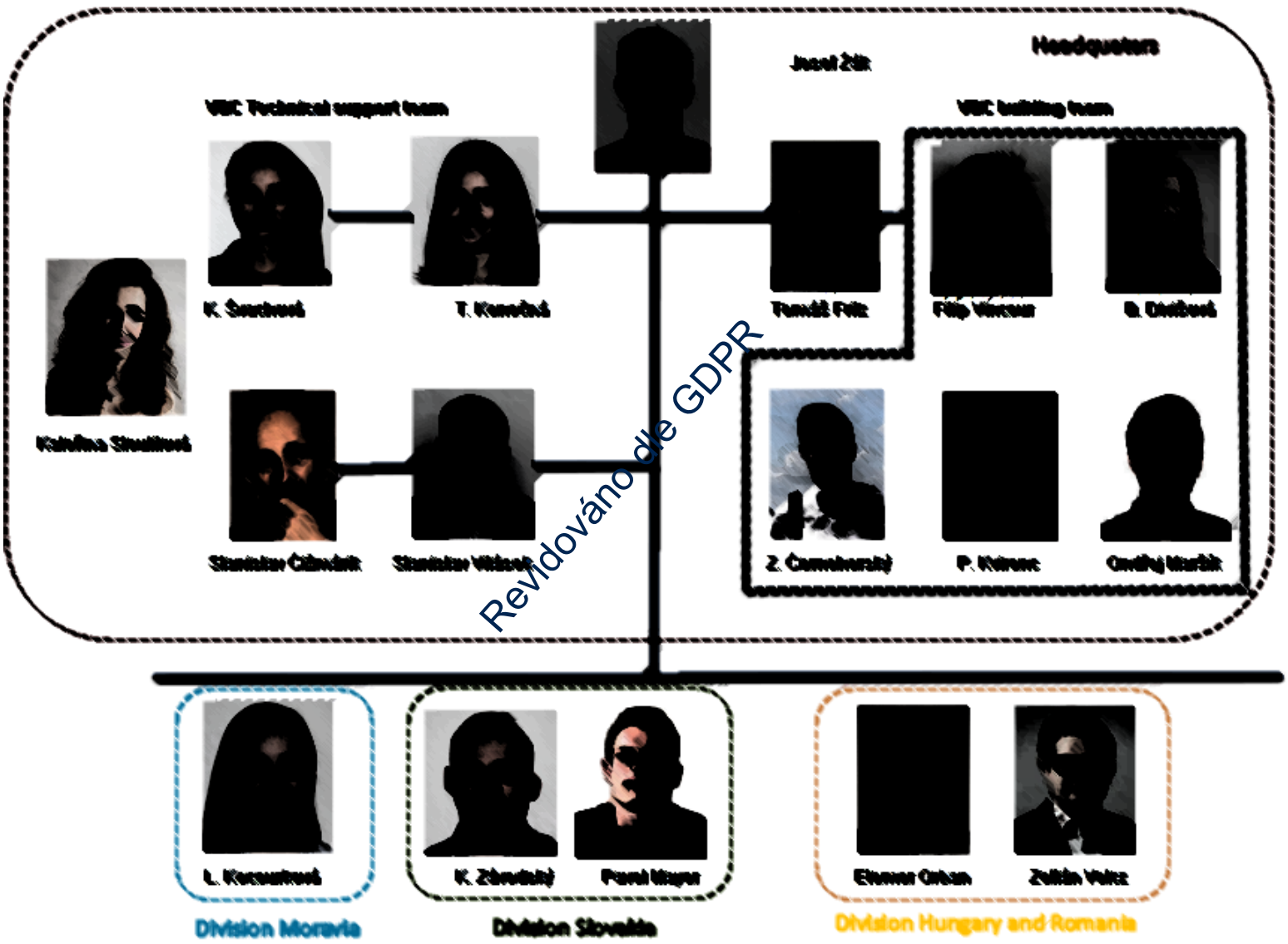
Finland
Vice President, R&D
Ilkka Romo

Skanska USA Commercial Development
Manager - Development
Jonathan Smith

Poland Building
Designer Assistant
Maciej Smoliński

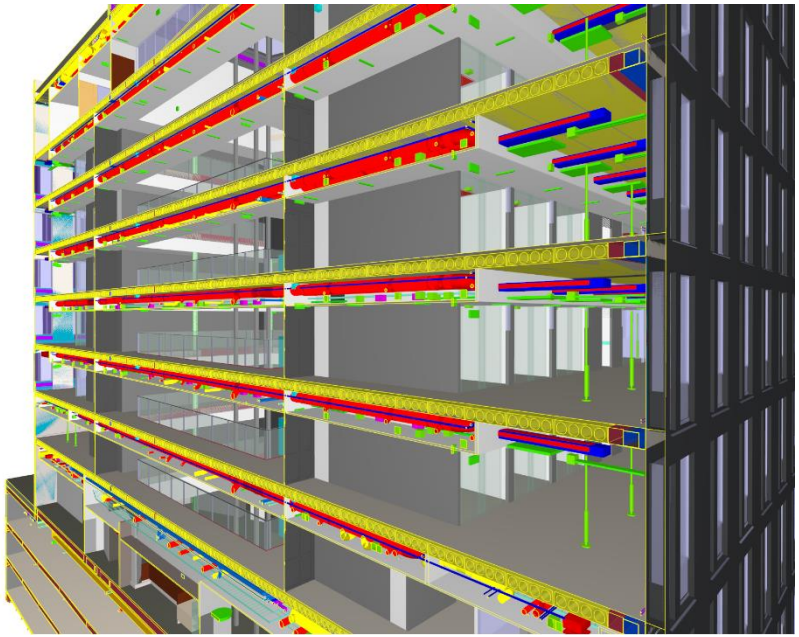
UK
Director of BIM & Digital
Malcolm Stagg

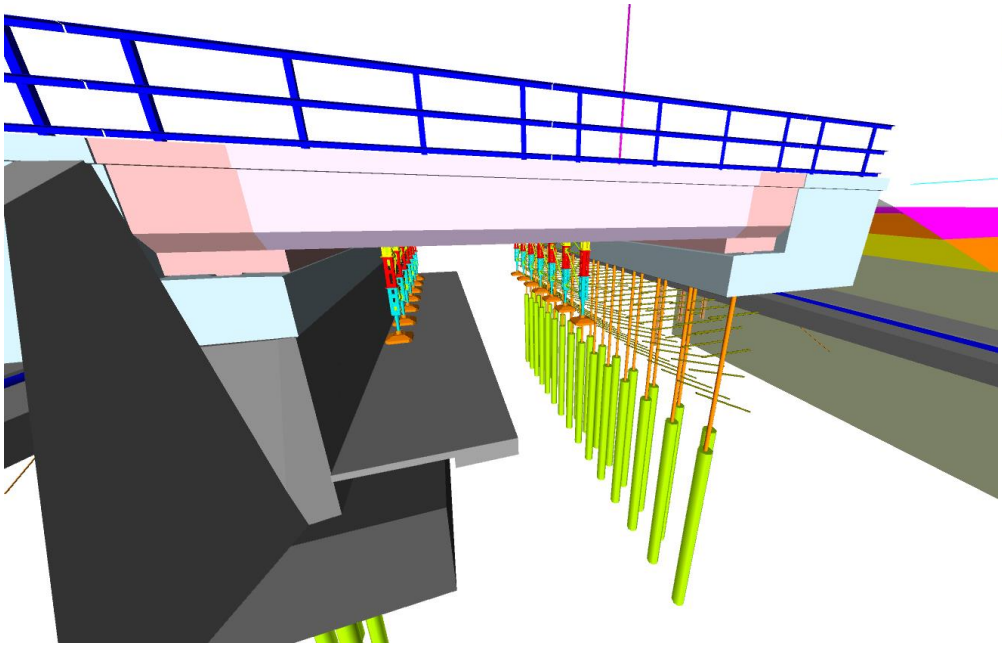
Poland Civil
Technical Support Manager
Aleksander Szerner



Revidováno dle GDPR

Digitální dvojče





Contract management

- Technický obsahu modelu
- Zodpovědné osoby
- Milníky
- Personální zajištění

  „Projektový tým“

- Zavedení systémů kontroly

SKANSKA

Skanska CDE

1 (6)

2013 10 28

CDE Project Specific BIM Planning
Project Specific BIM Strategy Template

Appendix 3

CDE ODR (Owners Design Requirement)

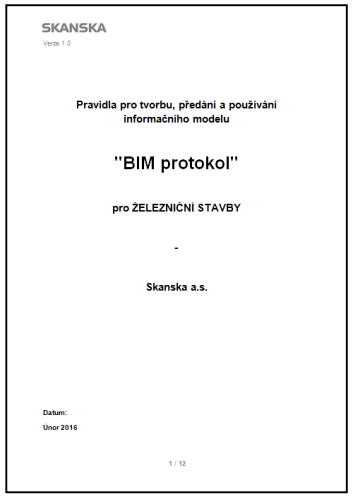
BIM Template

Praga

Skanska Commercial Development Europe

Owners Design Requirements" -ODR- consist of Skanska Commercial Development's know-how and methodology for developing projects. It was developed by Skanska as a company know-how and is legally protected. ODR should be used only by authorized persons involved in Skanska projects. Copying, publishing or using outside Skanska without consent is prohibited. A necessary legal action will be taken against unauthorized use of ODR.

Page 1 of 6


SKANSKA

Verze 1.0

Pravidla pro tvorbu, předání a používání informačního modelu

"BIM protokol"

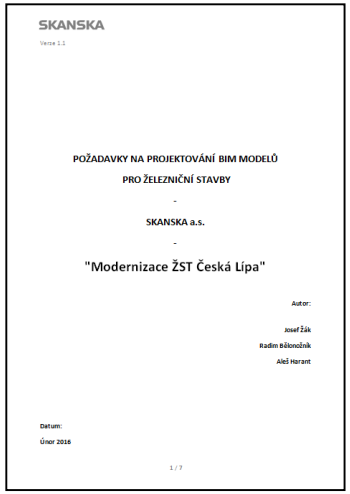
pro ŽELEZNIČNÍ STAVBY

-

Skanska a.s.

Datum:
Únor 2016

1 / 12


SKANSKA

Verze 1.1

POŽADAVKY NA PROJEKTOVÁNÍ BIM MODELŮ
PRO ŽELEZNIČNÍ STAVBY

-

SKANSKA a.s.

-

"Modernizace ŽST Česká Lípa"

Autor:

Josef Žák
Radim Bělonožník
Aleš Horant

Datum:
Únor 2016

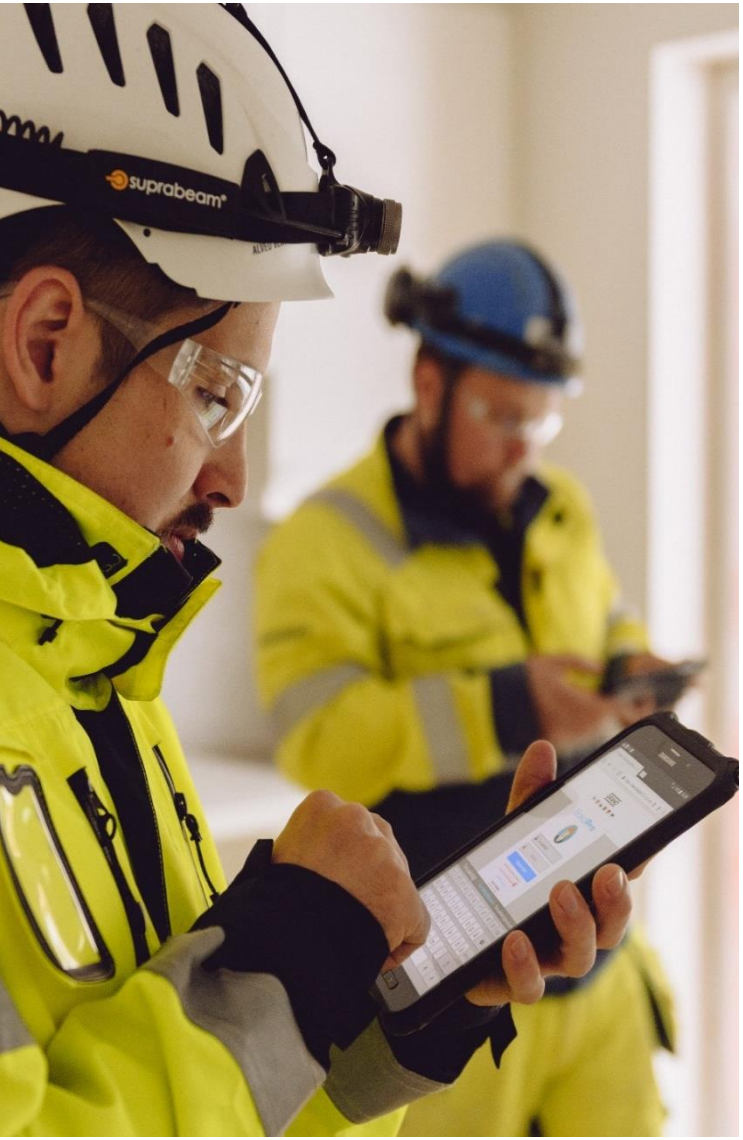
1 / 7

Spolupráce na projektech

1. generace

2. generace

3. generace

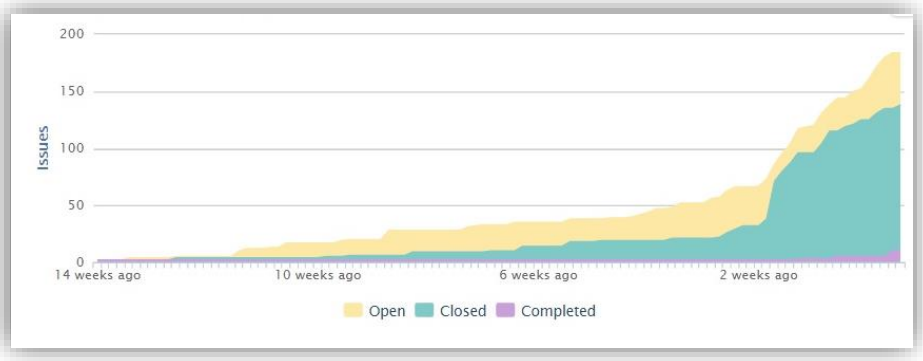


Mobilní zařízení na stavbách

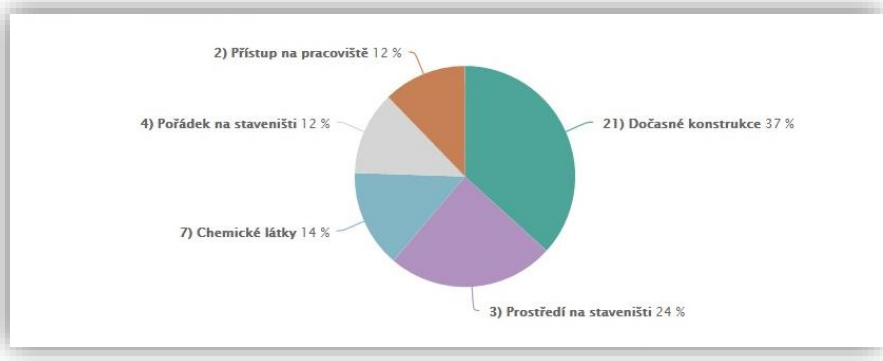
4. generace

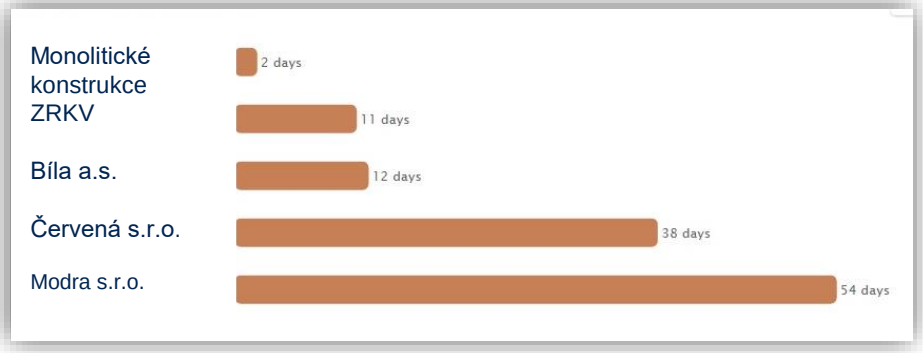
Databázové systémy

Záznamy vad, změn a jejich stav



Analýza příčin





Průměrná doba do vyřešení

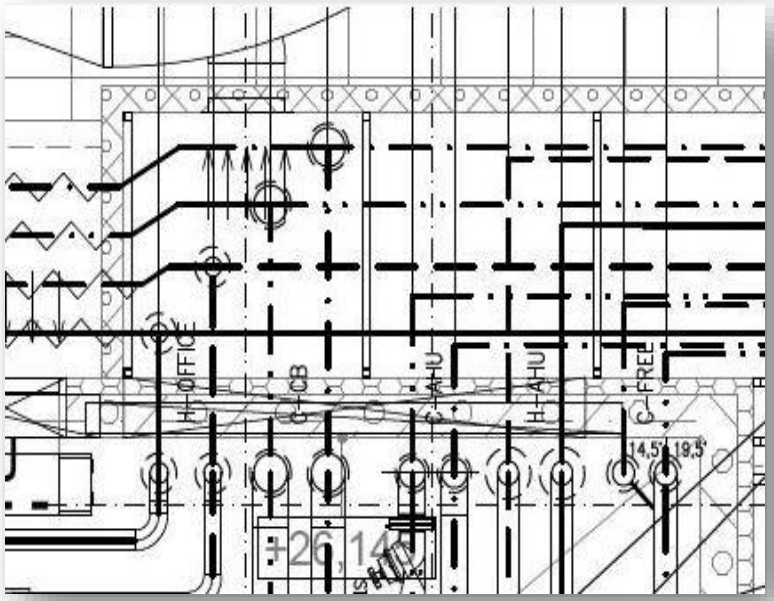
Společnosti s nejvíce vadami

Automatizace

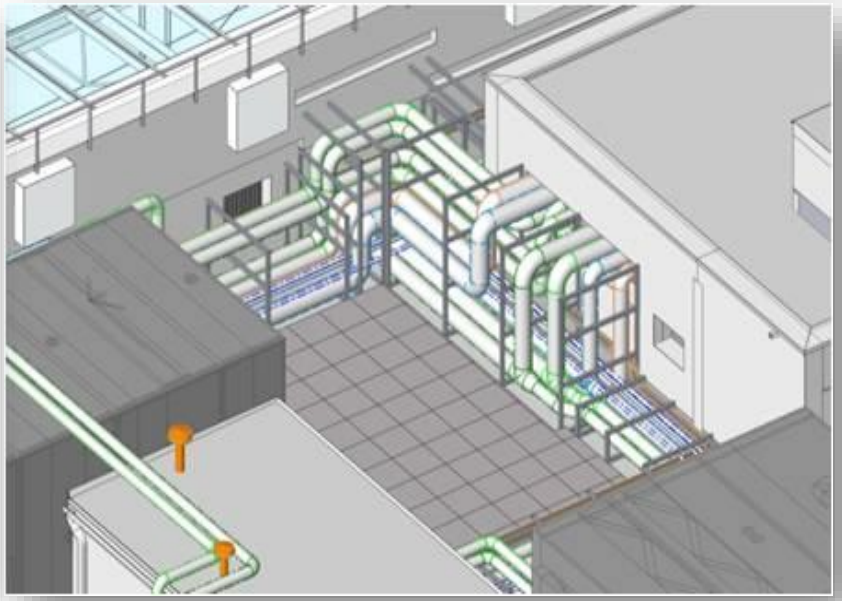
Automatizace

Vizualizace komplikovaných míst

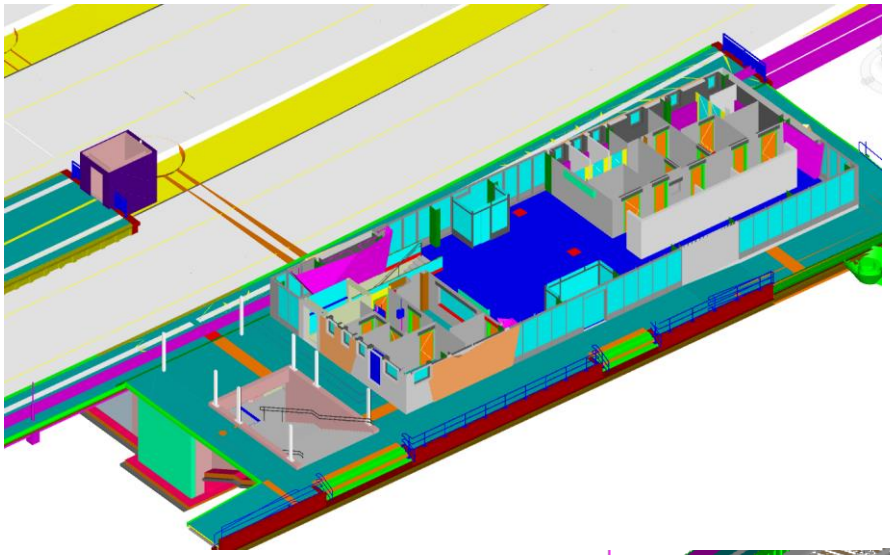
- 2D

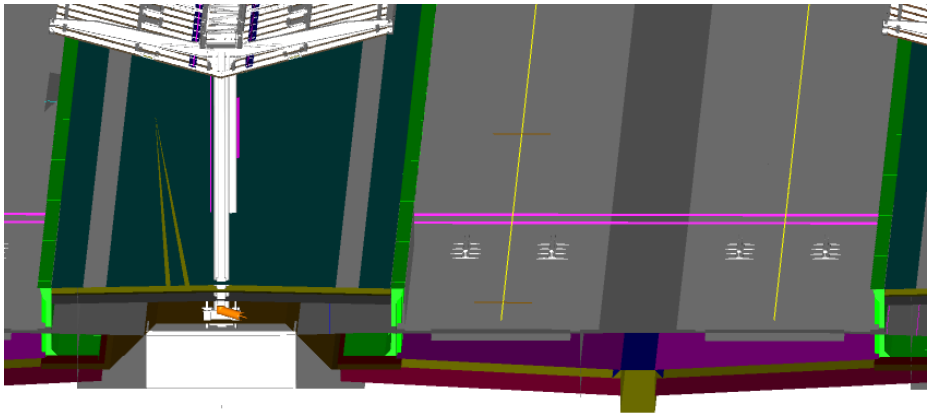


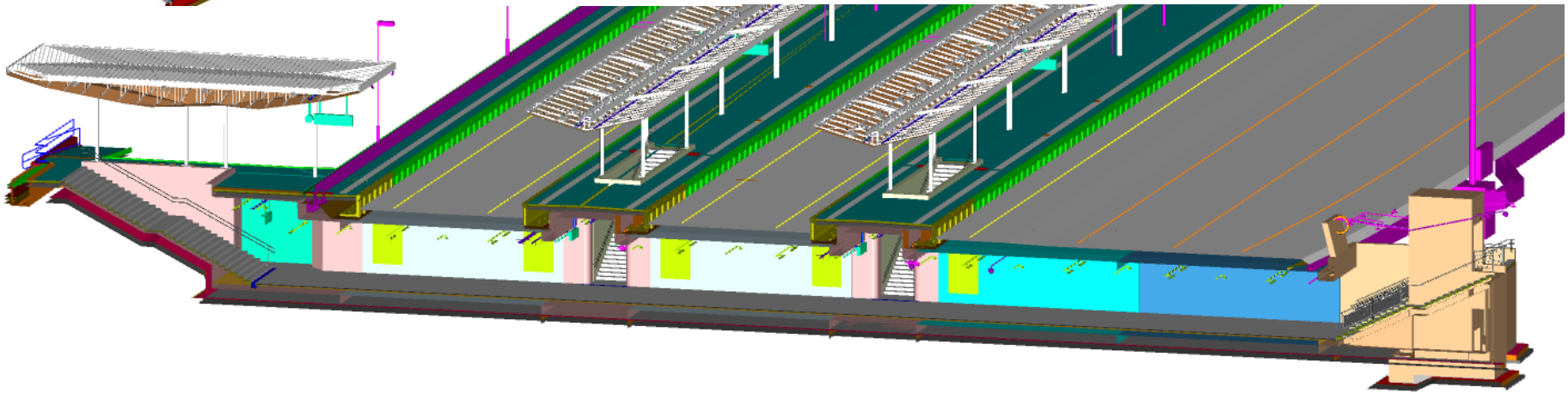
- 3D model



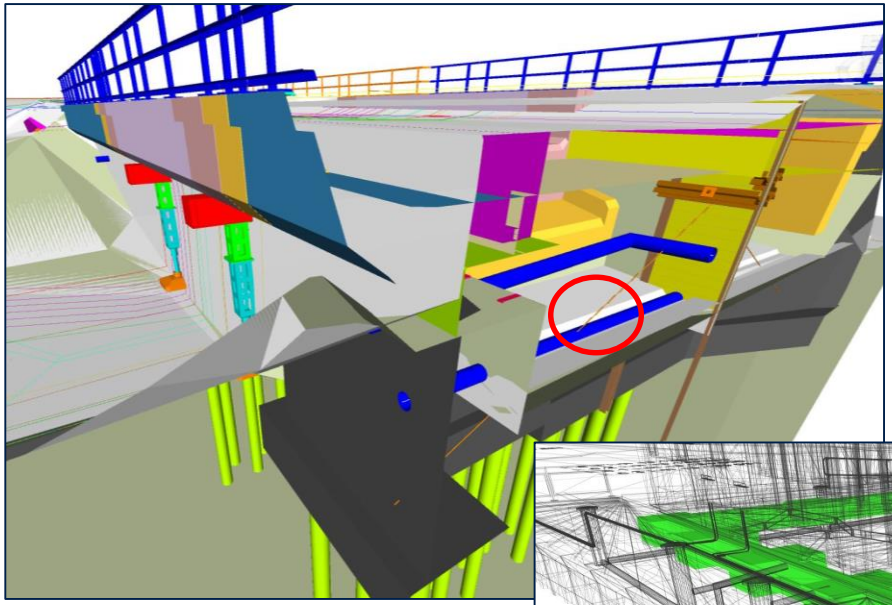
Detekce kolizí a design management



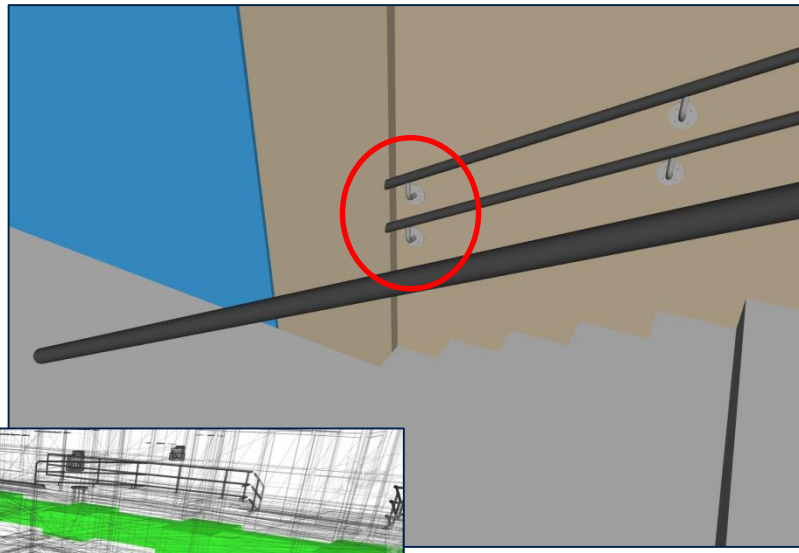




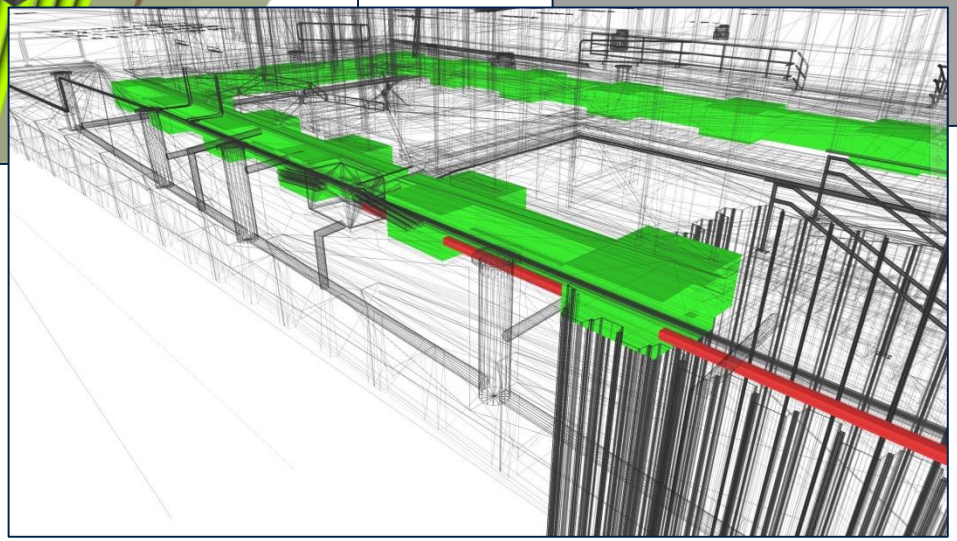
Detekce kolizí – snižování rizik



Kolize: průnik mostní drenáže a kotvy pažící stěny mostu

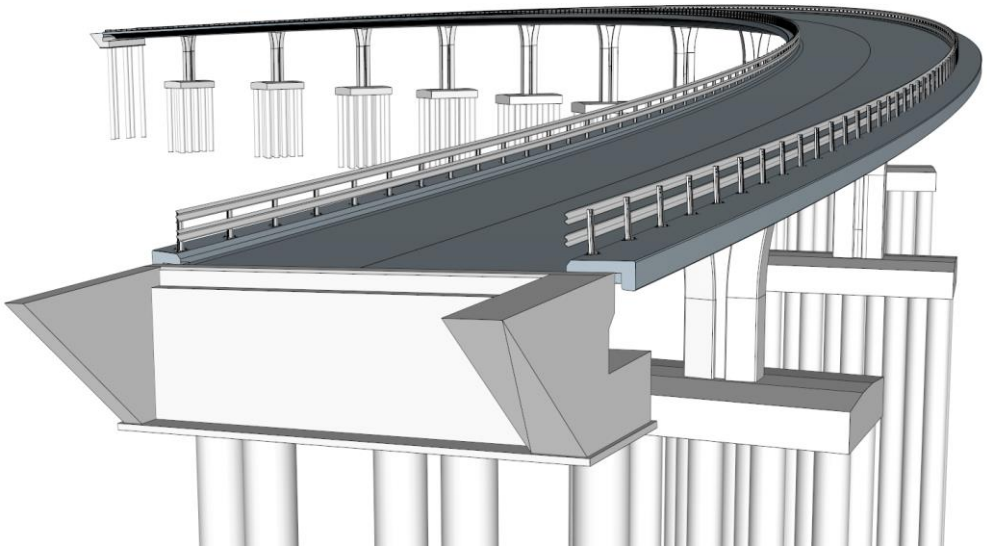


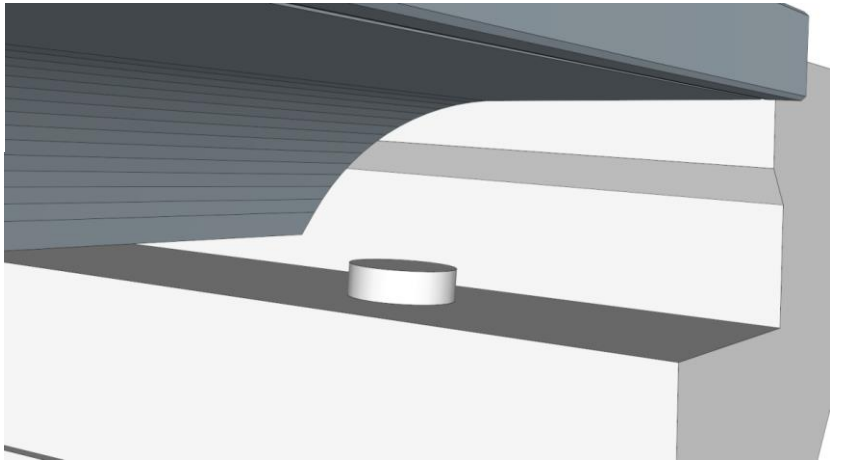
Kolize: schodišťového záb
a nosné stěny podchodu



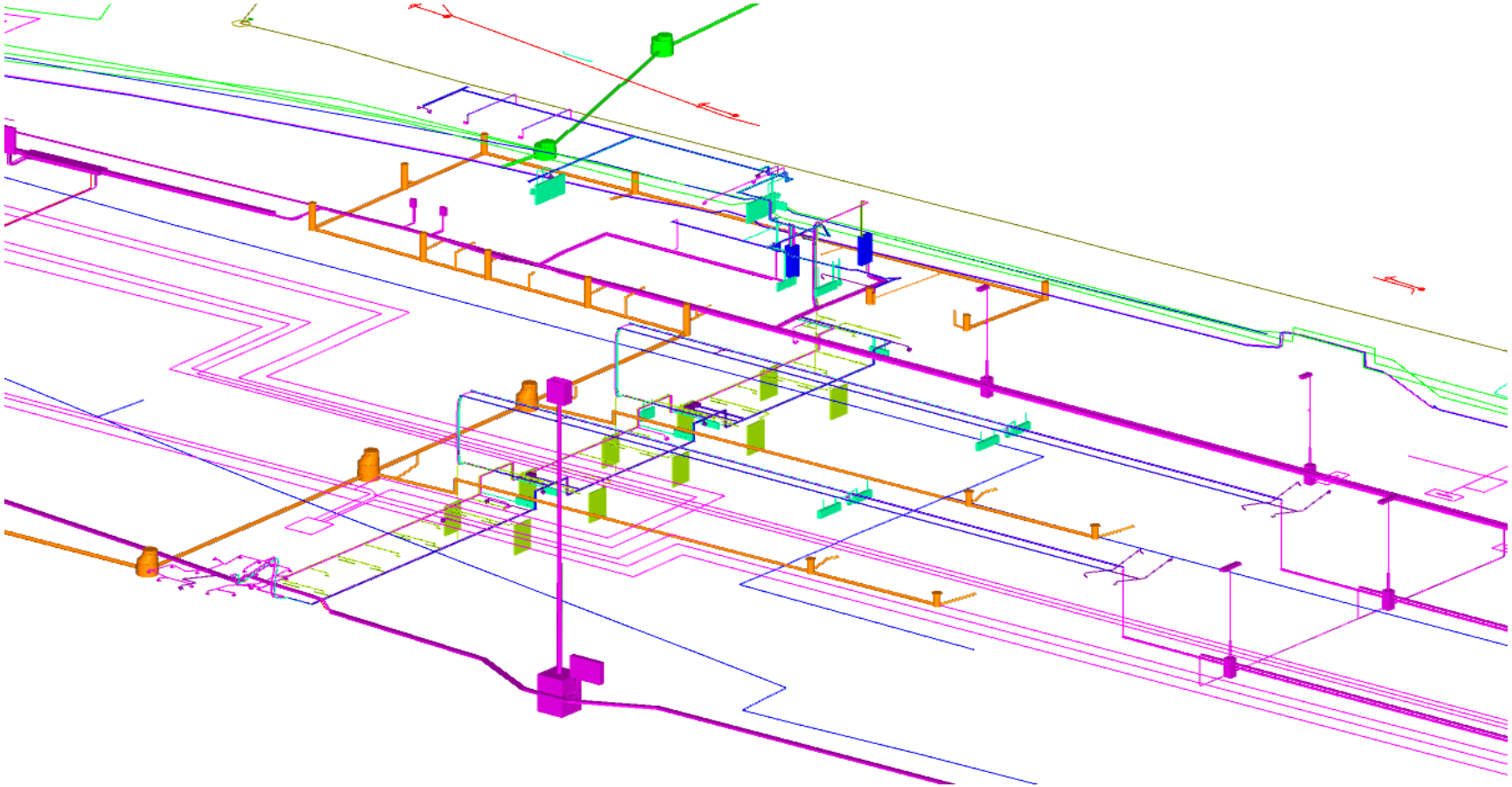
Kolize: vedení žlabu kabelovodu prochází skrz základové patky

Detekce kolizí

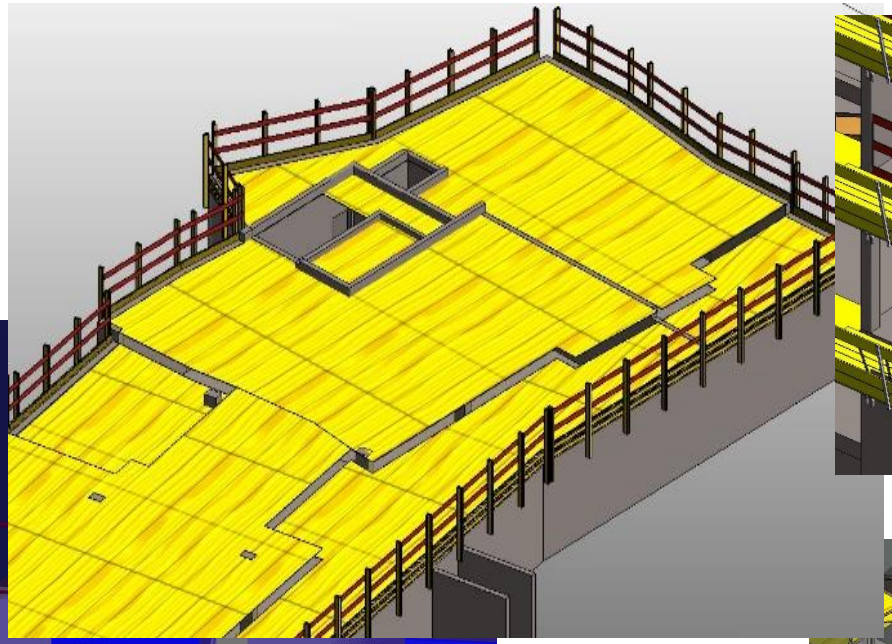


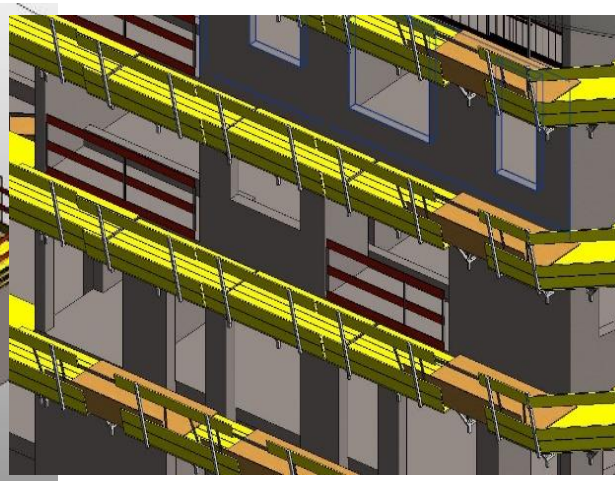


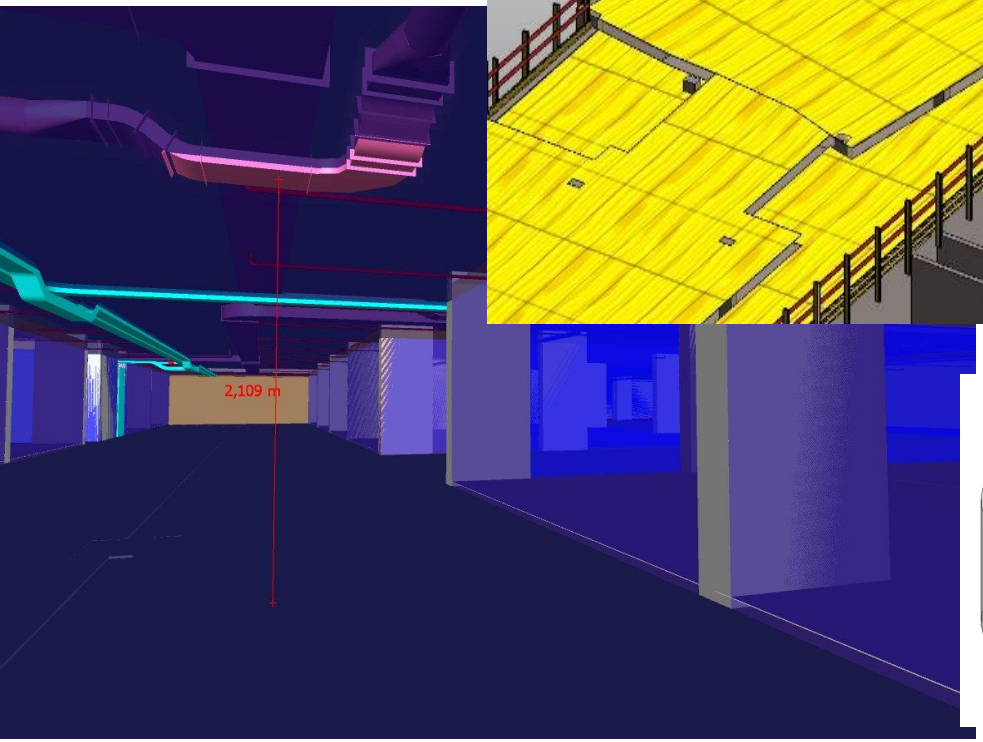
Informační modely – návaznosti a správa

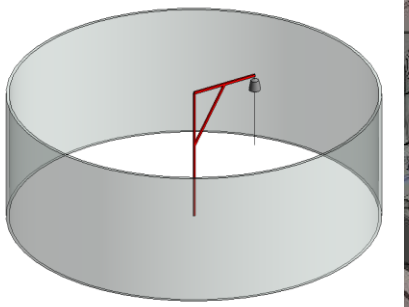


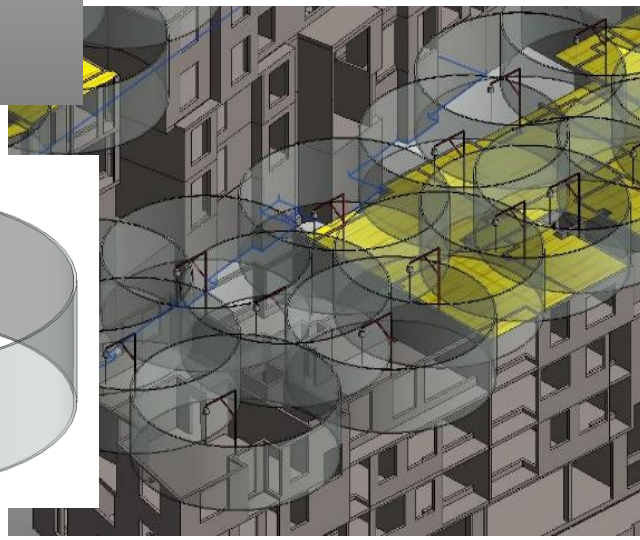
Detekce kolizí a BOZP



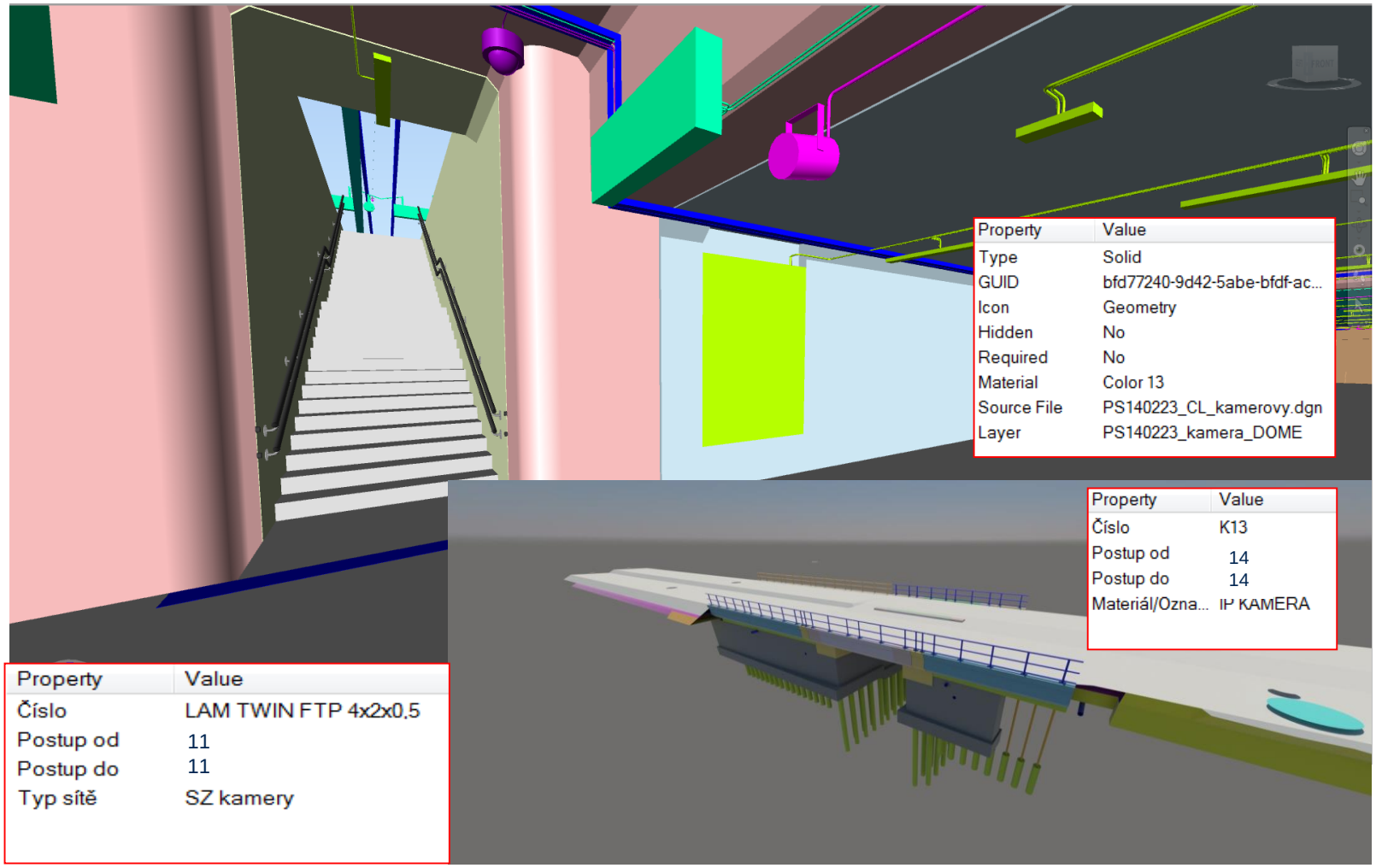




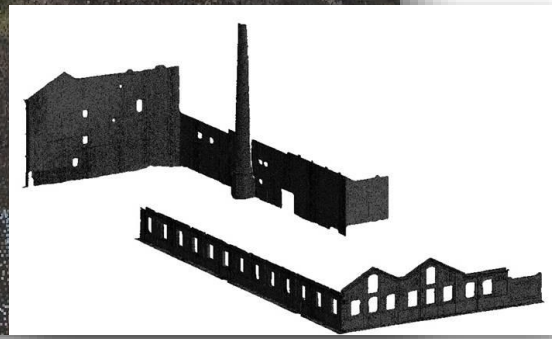




Simulace výstavby



UAV a laserové skenování



SKANSKA

Podpora inovací

Děkuji za pozornost.

josef.zak@skanska.cz