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# Lepsøya Bru - „Zpívající“ spřažený most

Lepsøybrua, More og Romsdal, Norsko

Michal Kunc
Projektový manažer
Skanska

# Historie

1963 - Veřejné zasedání

1989 - Odsouhlasení „parlamentem“

2012 - krajská rada řekla ano

2018 - politické rozhodnutí : 26/21

# Silnice 659 Nordøyvegen

# Úsek K5 Skjeltene - Harøya

**Výstavba: březen 2019 – srpen 2022**

**Cena: 3 mld NOK + elektro 250 mil NOK**

**10 km silnic**

**2,7 km násypy v moři**

**3 mosty**

- Lepsøybrua
- Laukebrua
- Hamnaskjersundbrua

**13 km tunely**

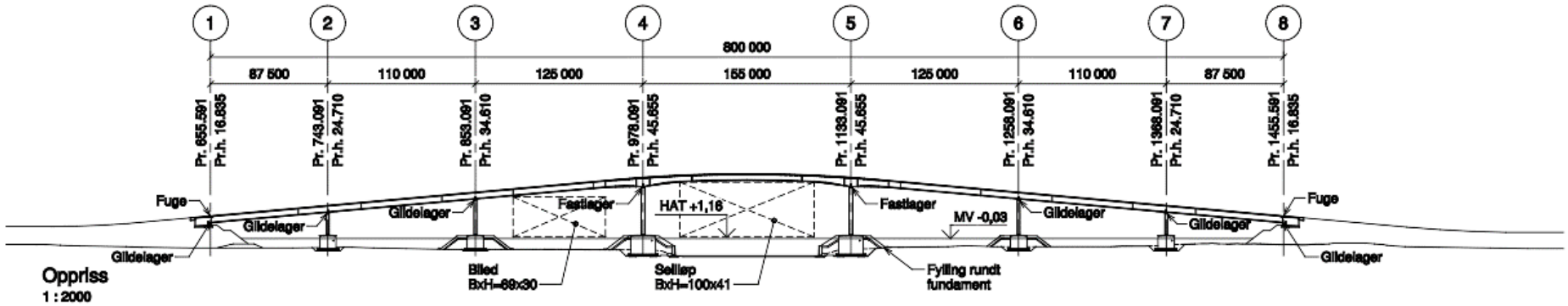
- Haramsfjordtunnelen
- Nogvafjordtunnelen
- Fjørtoftfjordtunnelen
- Burbergtunnelen

Lepsøybrua : 800m
Image © 2020 TerraMetrics
Google Earth

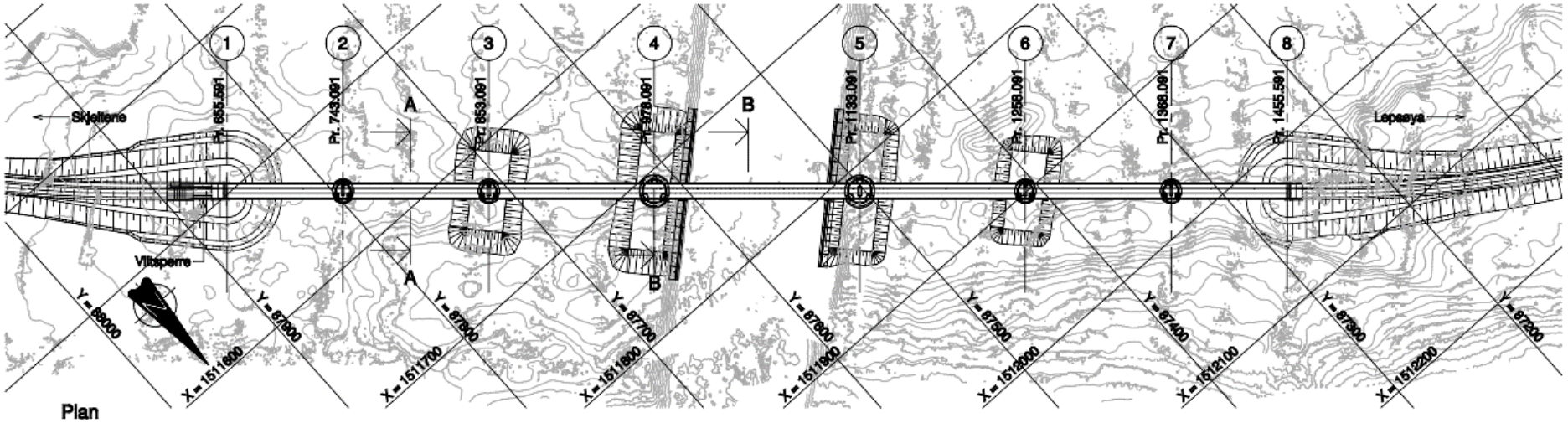
# Most Lepsøybrua

- Spřažená konstrukce – ocelová komora a betonová deska
- Založení na dně pomocí kesonů
- Podvodní opěrná zeď podél plavebního kanálu
- Plavební kanál: 100 x 41 m
- Ochrana konstrukce proti nárazu lodi

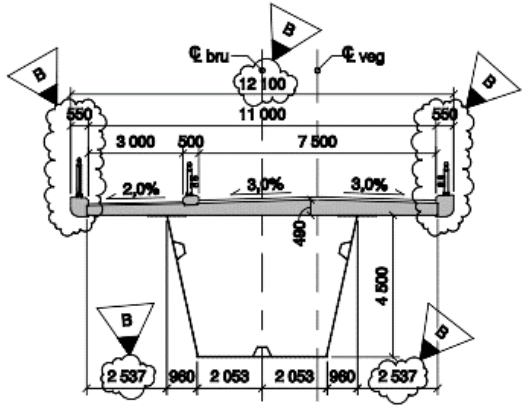
| Profil nr. | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Profil h. | +11,832 | +16,332 | +20,832 | +25,332 | +29,832 | +34,332 | +38,832 | +43,332 | +46,983 | +48,375 | +47,492 | +44,330 | +39,838 | +35,338 | +30,838 | +26,338 | +21,838 | +17,338 |
| Terreng h. | -6,3 | -7,0 | -7,0 | -6,6 | -7,4 | -8,3 | -8,0 | -8,5 | -11,4 | -13,2 | -13,0 | -7,5 | -6,0 | -6,0 | -6,1 | -5,4 | -3,6 | -4,1 |
| Hor. kurv. | $R_H = \infty$ | | | | | | | | | | | | | | | | | |
| Vert. kurv. | s = 9% | | | | | | | | R = 1100 | | | | s = -9% | | | | | |
| Tverrfall | 3,0% | Gangbane 2% konstant | | | | | | | | | | | | | | | 3,0% | |
| —— H.kj.b.k | | | | | | | | | | | | | | | | | | 3,0% |
| - - - V.kj.b.k | | | | | | | | | | | | | | | | | | |



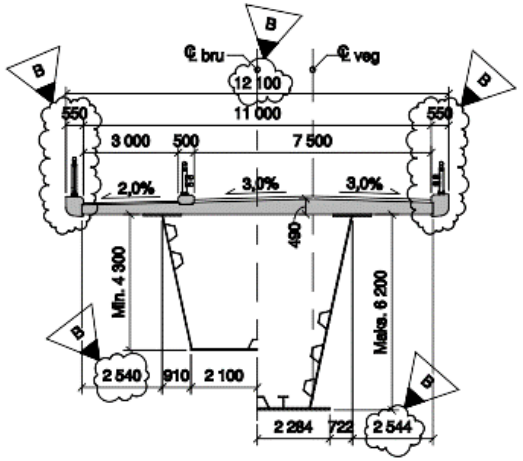

Oppriss
1 : 2000




Plan
1 : 2000




Snitt A-A (typ.)
1 : 100




Snitt B-B (typ.)
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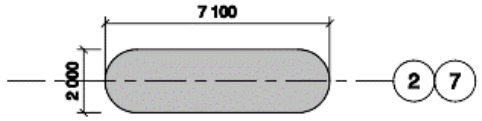
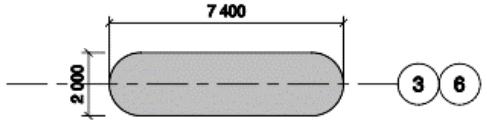



Snitt ved søylefot
1 : 100

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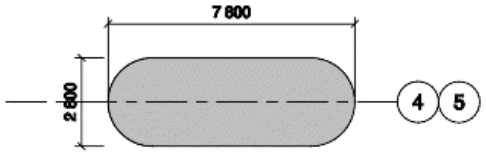


Snitt ved søylefot
1 : 100

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# Původní terén

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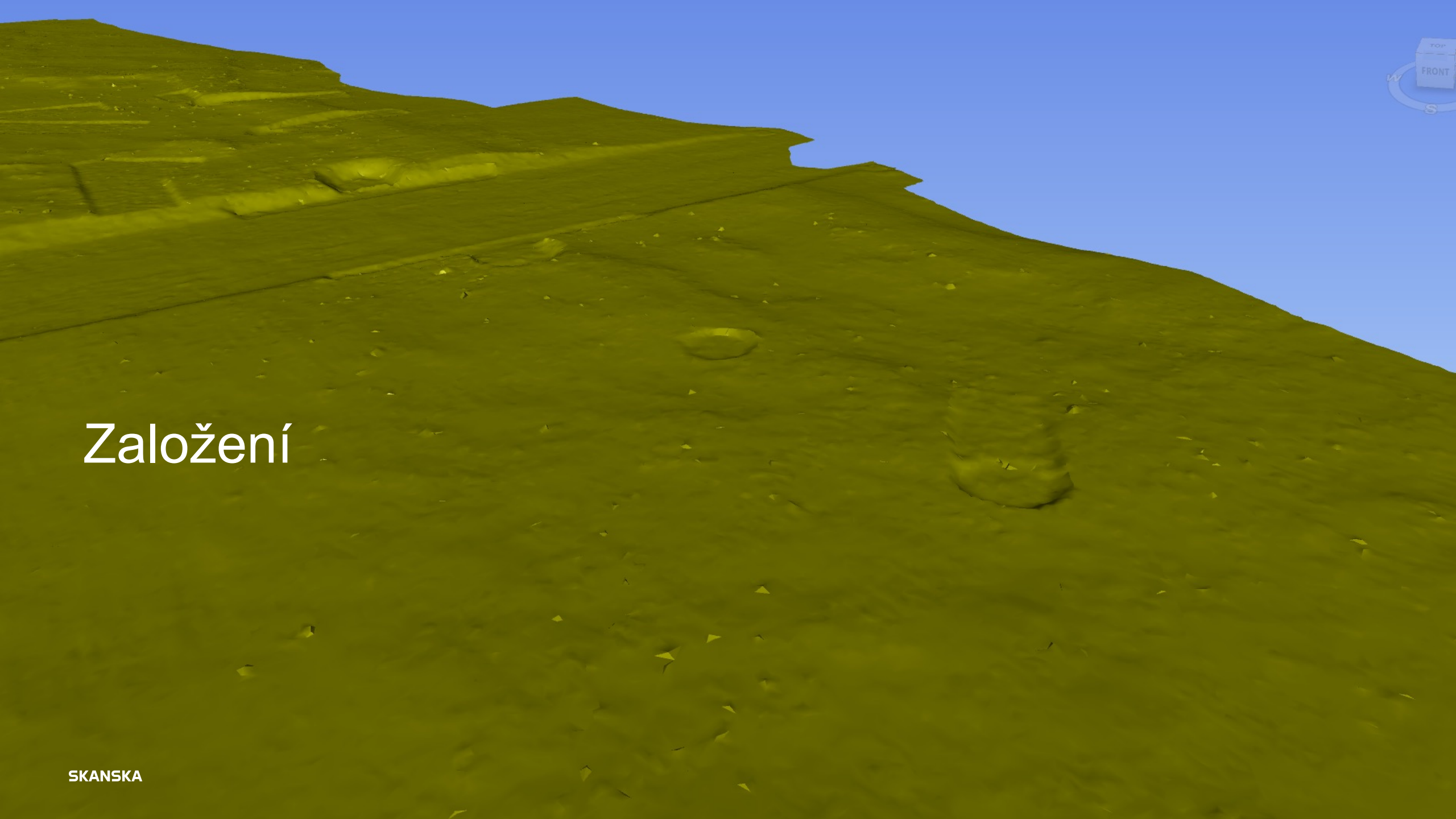


# Založení

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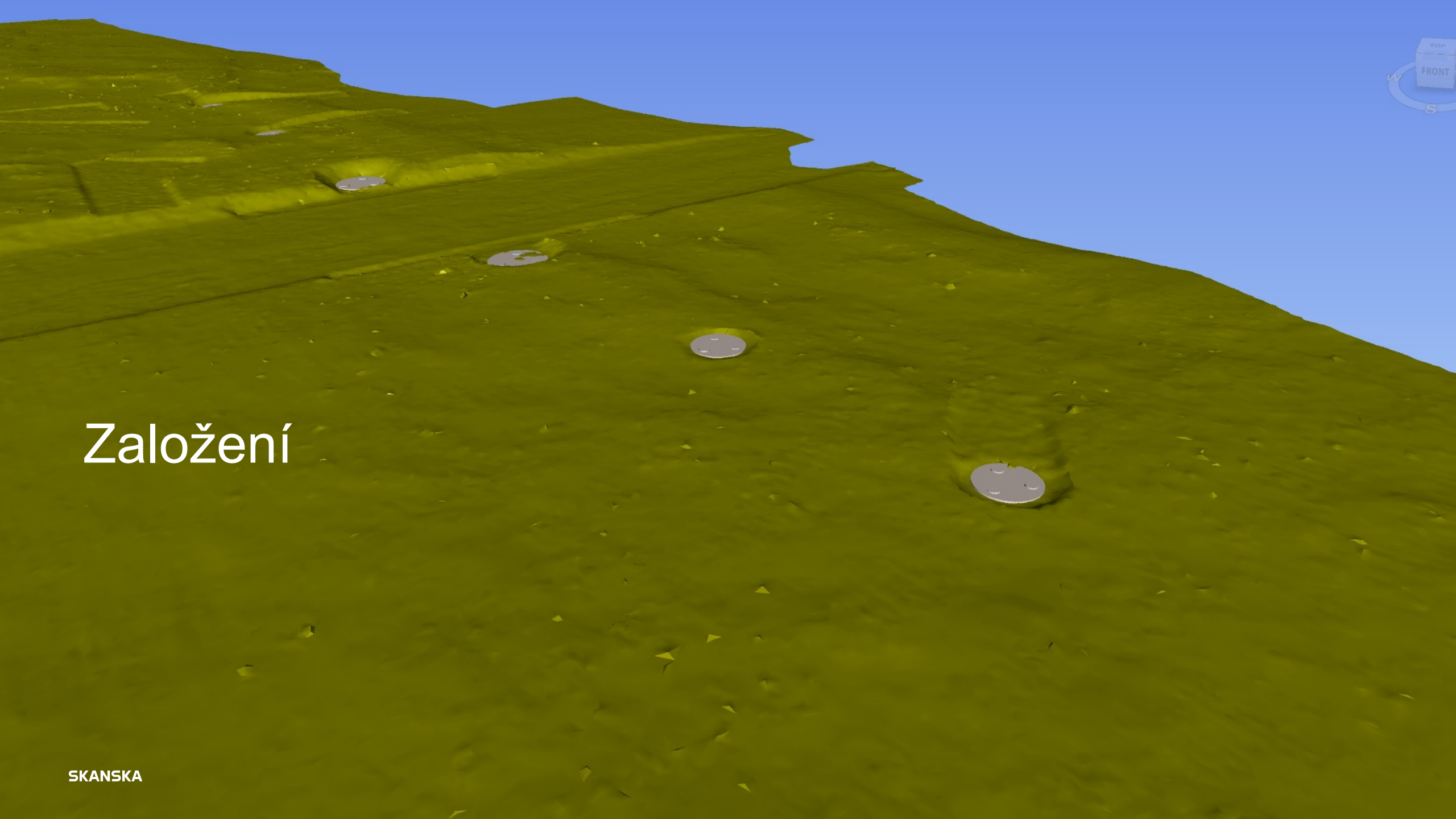


# Založení

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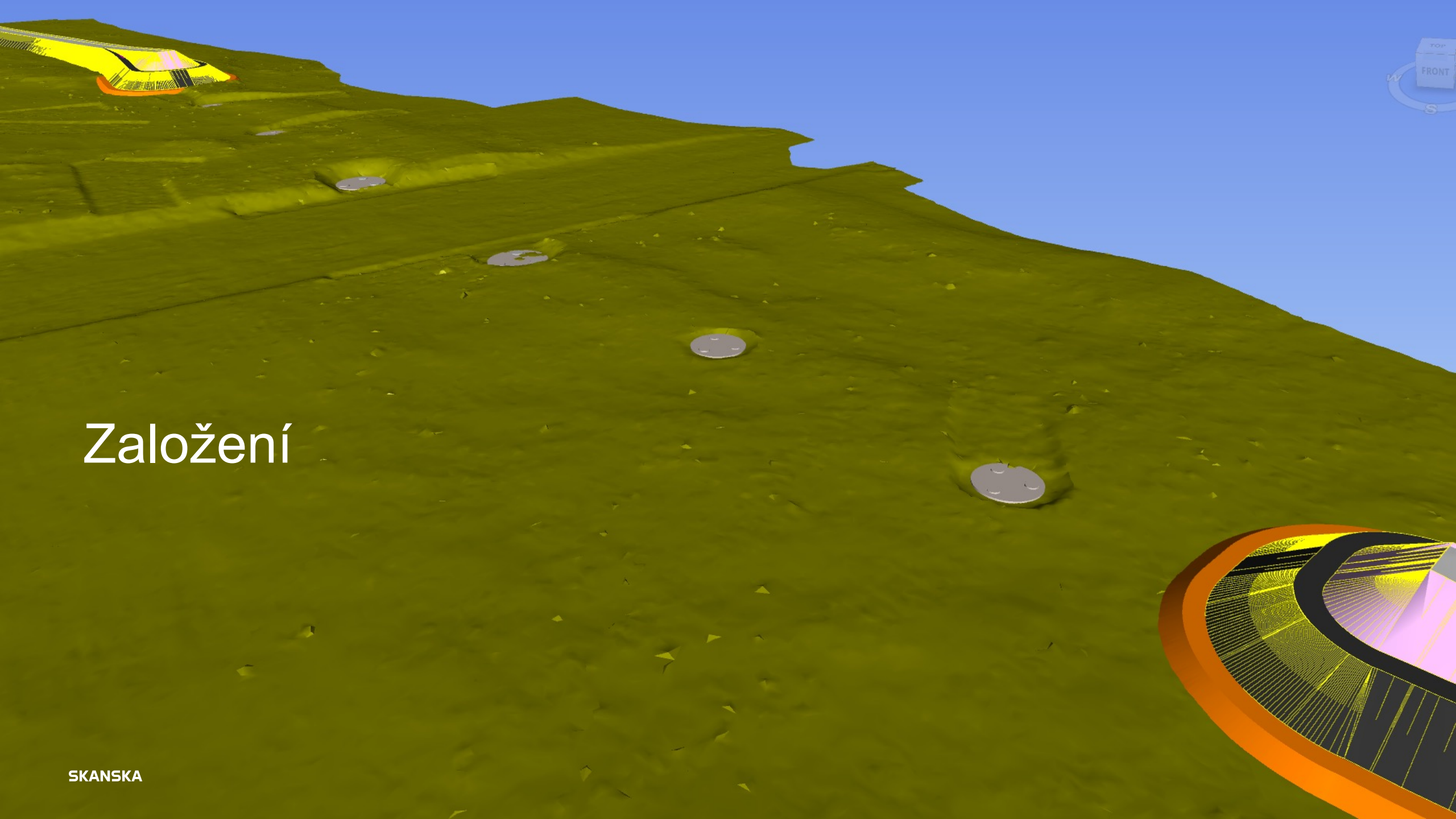


# Založení

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# Spodní stavba

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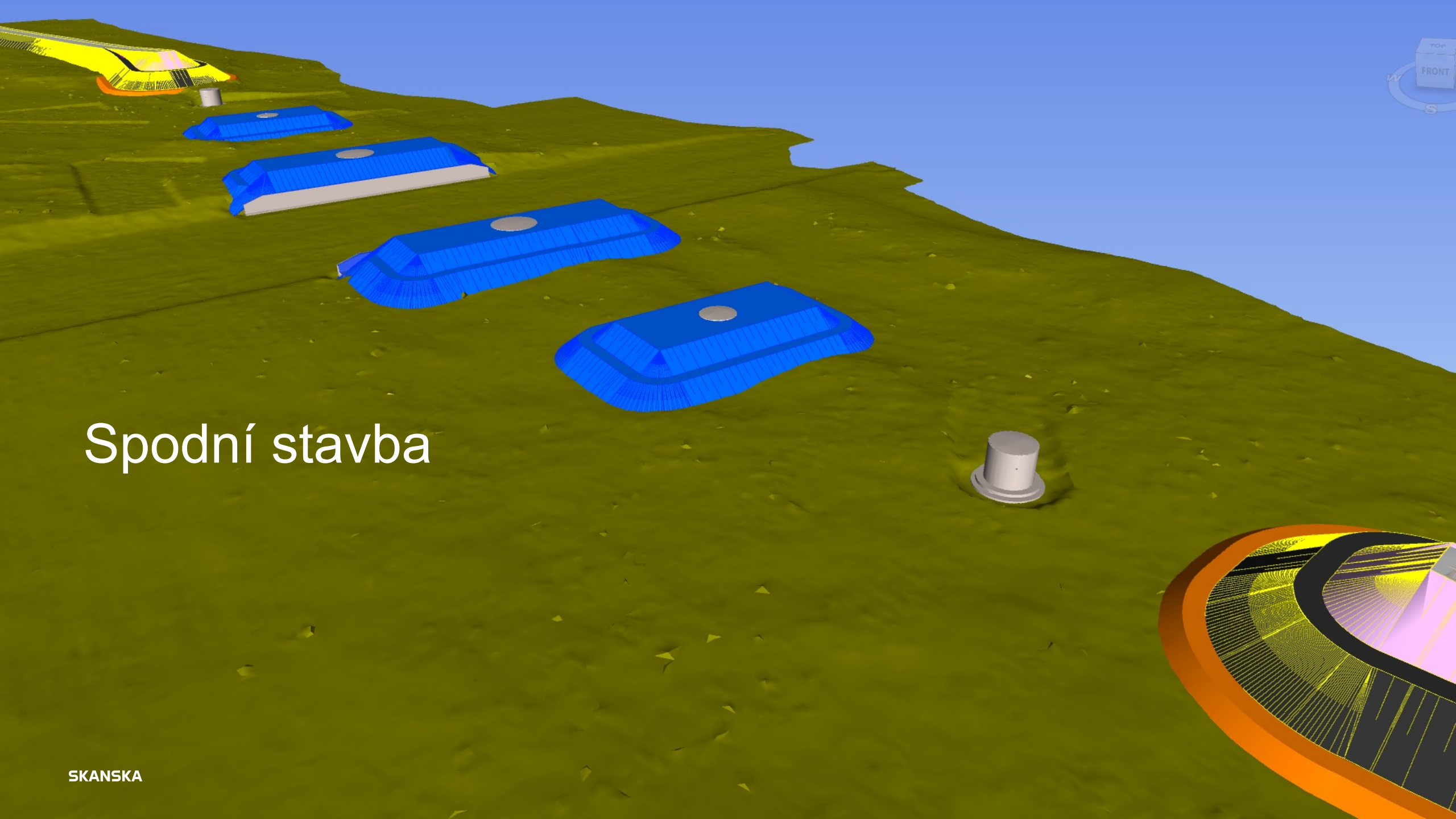


# Spodní stavba

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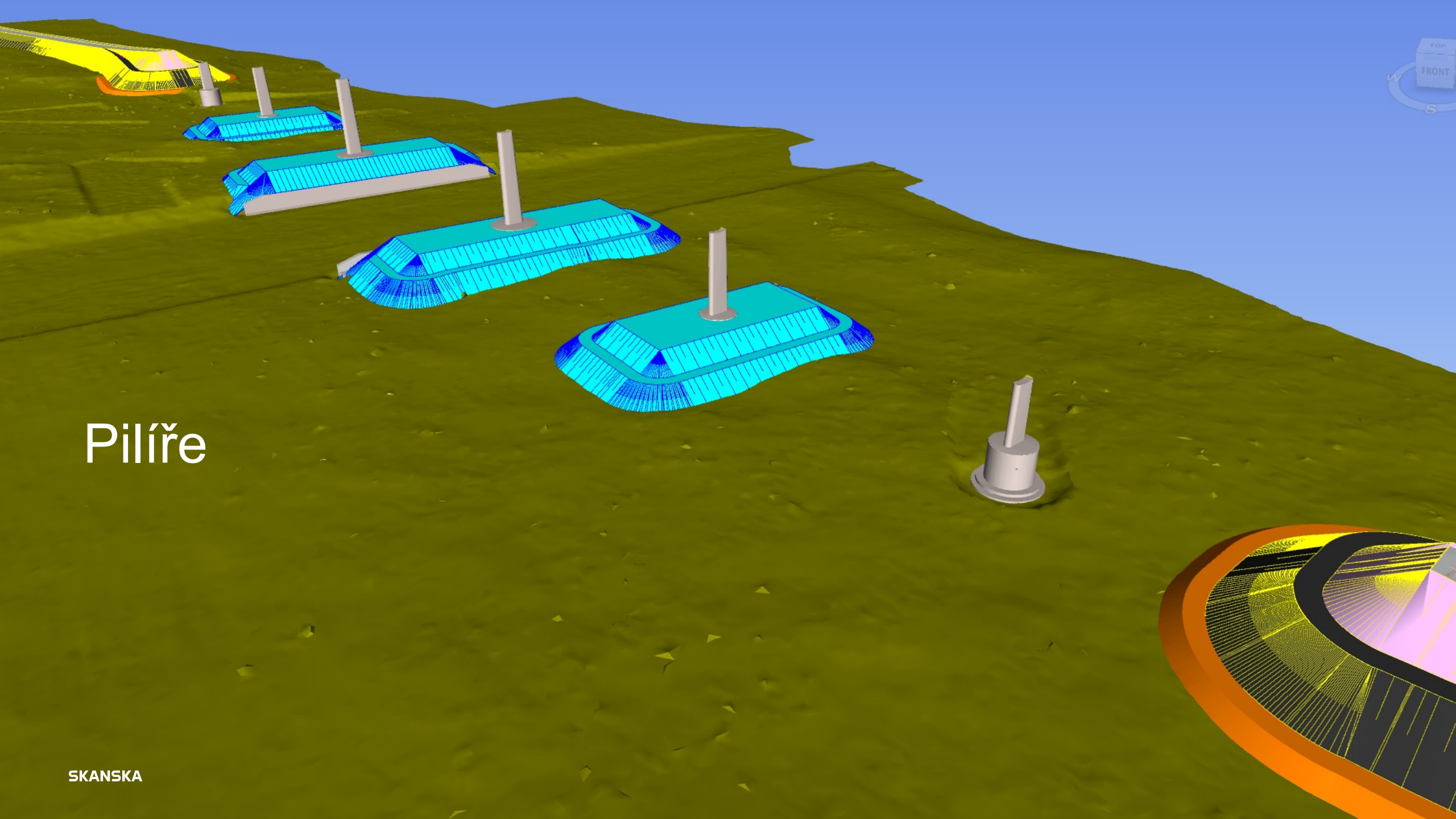
Pilíře
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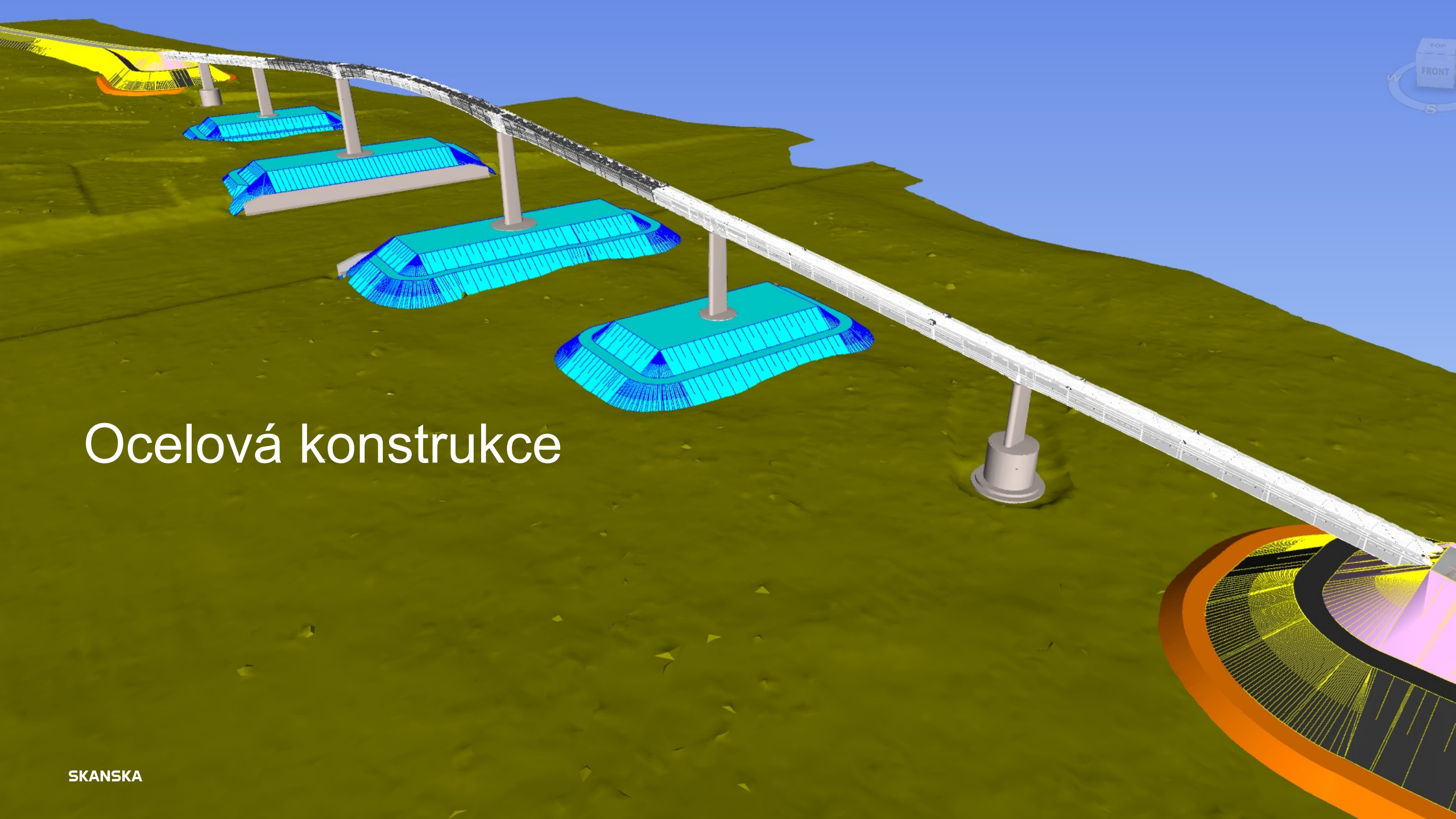

# Ocelová konstrukce

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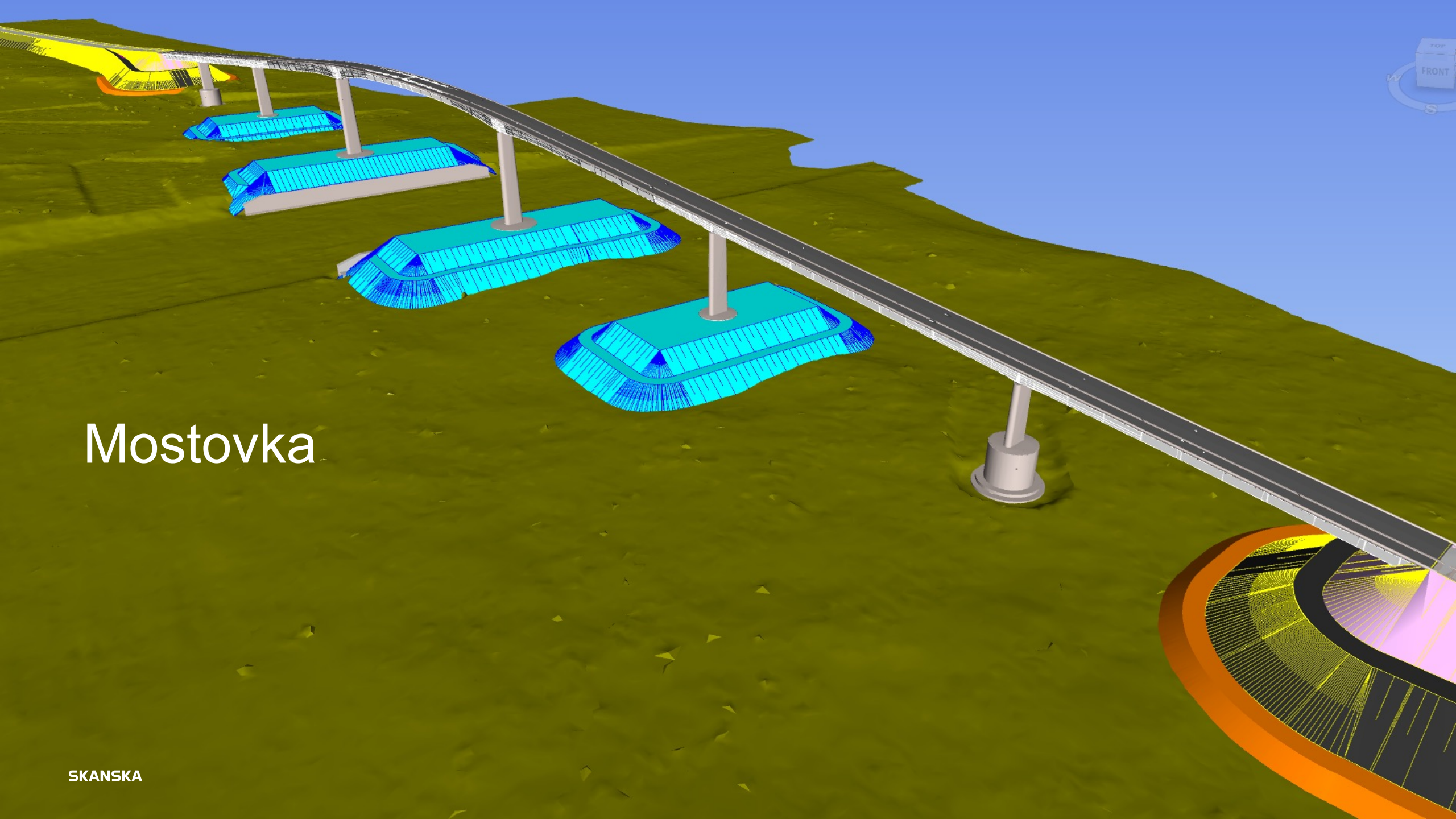
Mostovka
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# Zakládání

# Drony :
# ve vzduchu
# na hladině
# i pod vodou

# Kesony

# Stavba pilířů

# Montáž ocelové konstrukce

# Betonážní vozík

# „Zpívající“ most

# Projekt 659 Nordøyvegen ocenění Stavba roku 2022

# Děkuji za pozornost

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