

FASADA NA OKO

TIM 10 – BUBNJEVIĆ CRNKOVIĆ
MEŠTROVIĆ

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Facade Defect Detector

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PROBLEMATIKA

- KFK (krov, fasada, konstrukcija)
- QC – provjera kvalitete fasadnih elemenata
- ručni proces – spor, neefikasan, pogreška
kasne detekcije defekta vrlo skupa
- ZADATAK: automatska detekcija defekata na
temelju fotografije



KARAKTERISTIKE PODATAKA

- dataset: slike fasadnih elemenata u tvornici
- 3 fasadna 3D modela, različiti potencijalni defekti

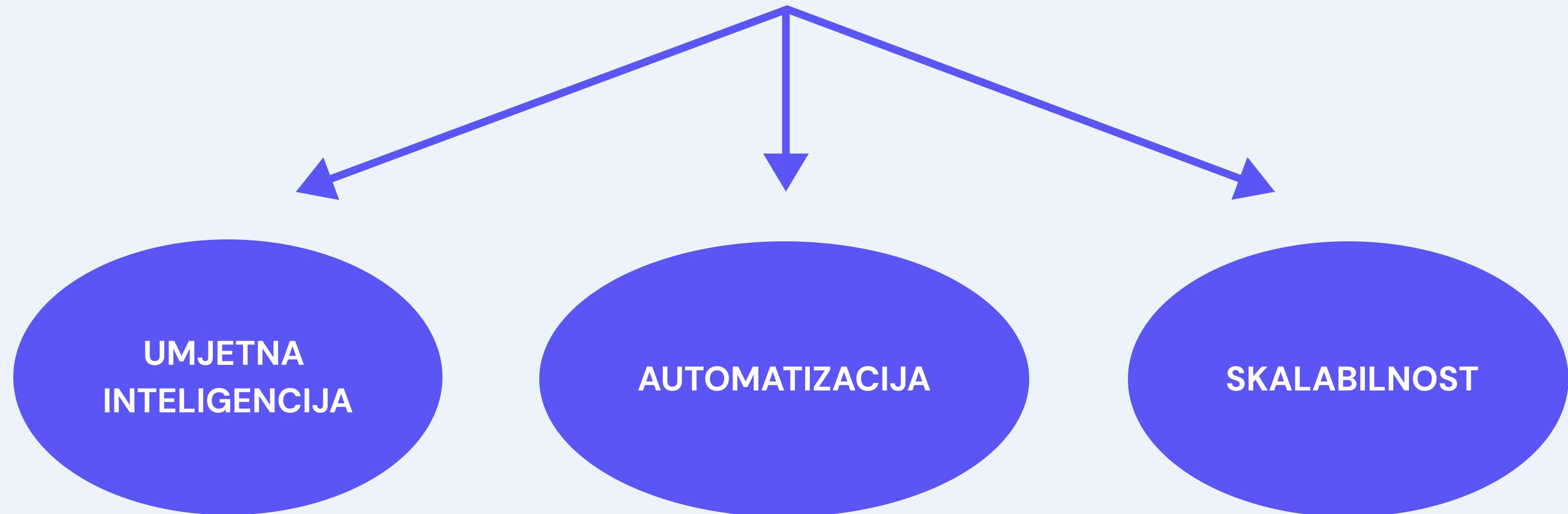
POSITIVE – elementi bez defekta



NEGATIVE – elementi s defektima

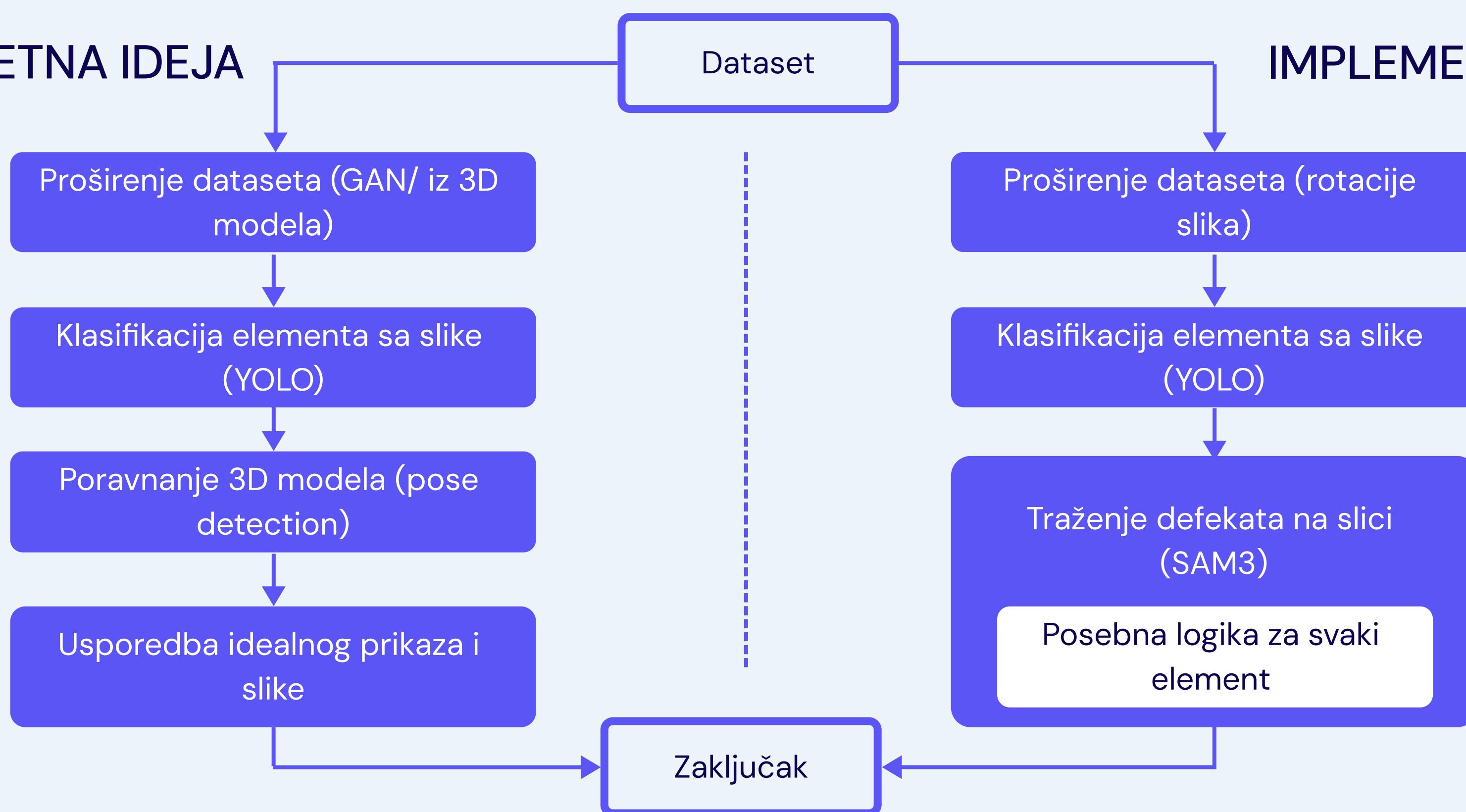


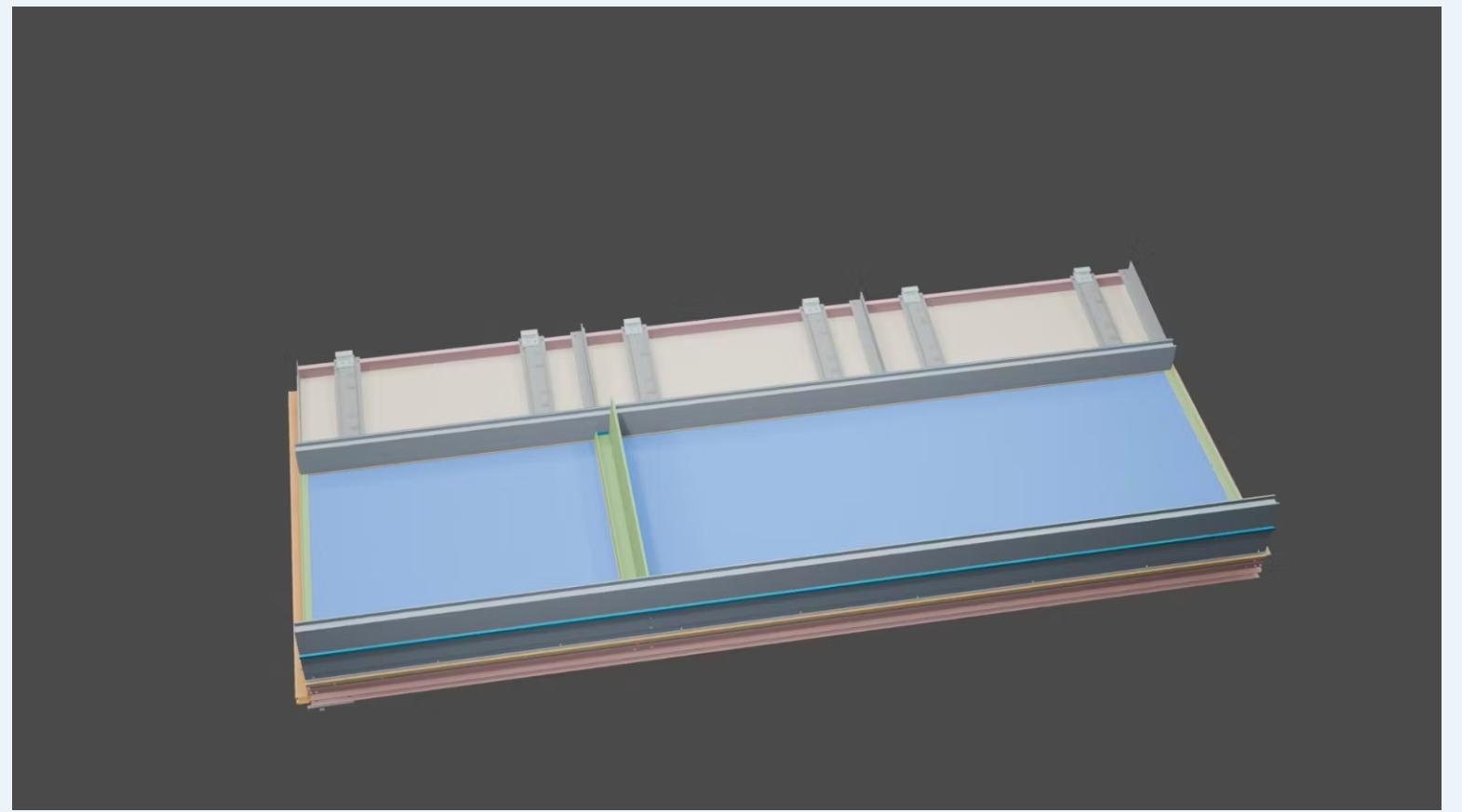
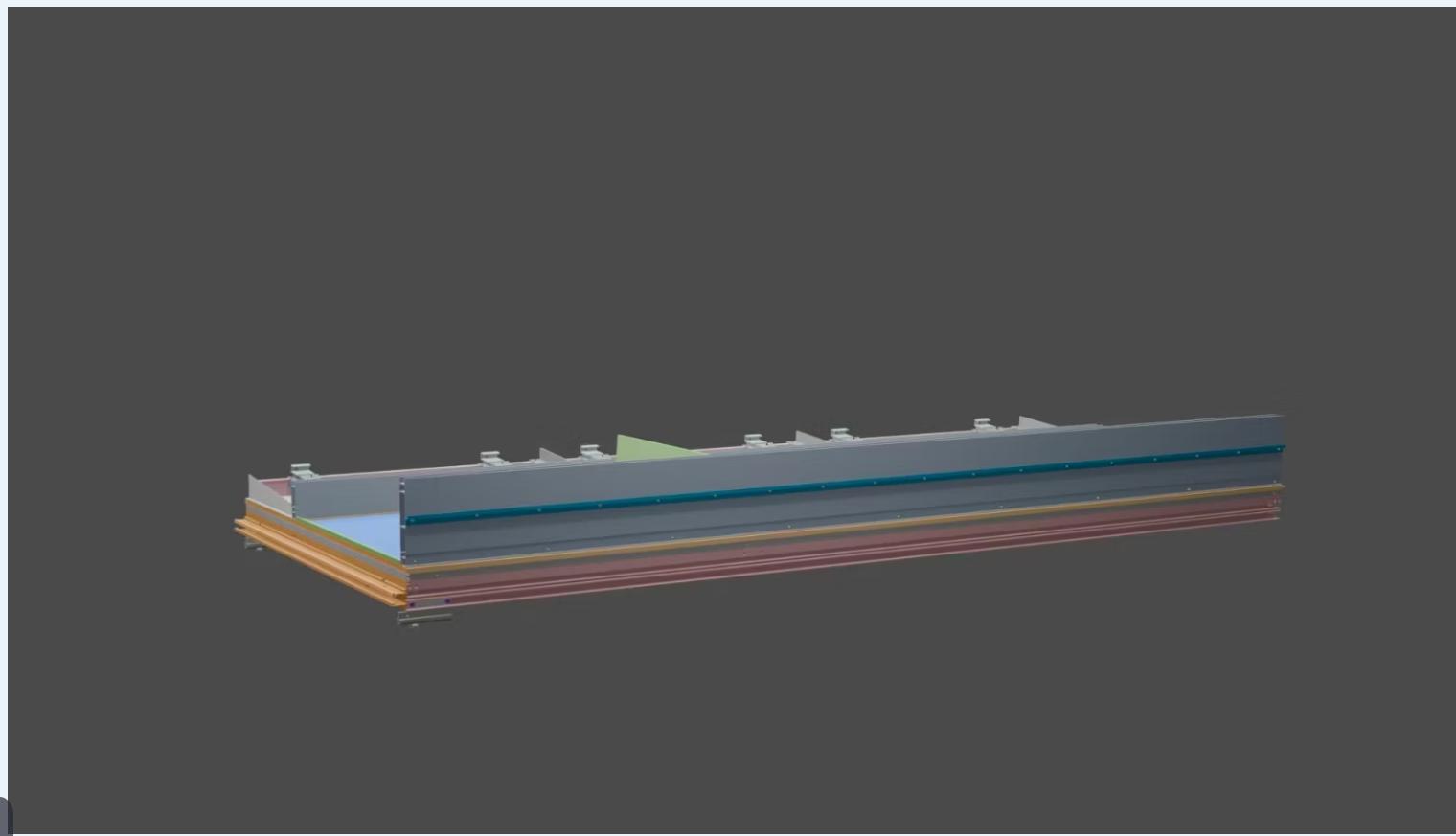
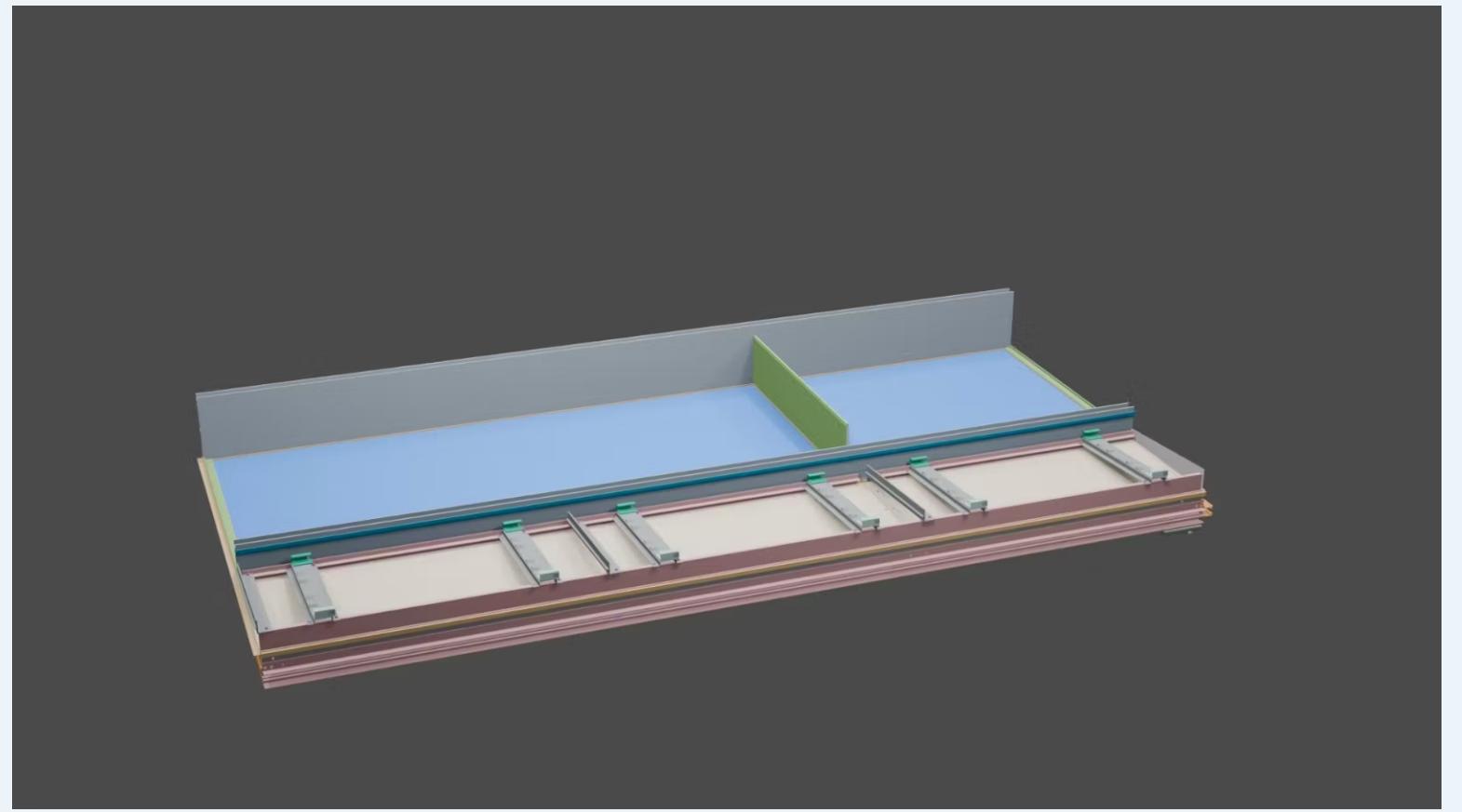
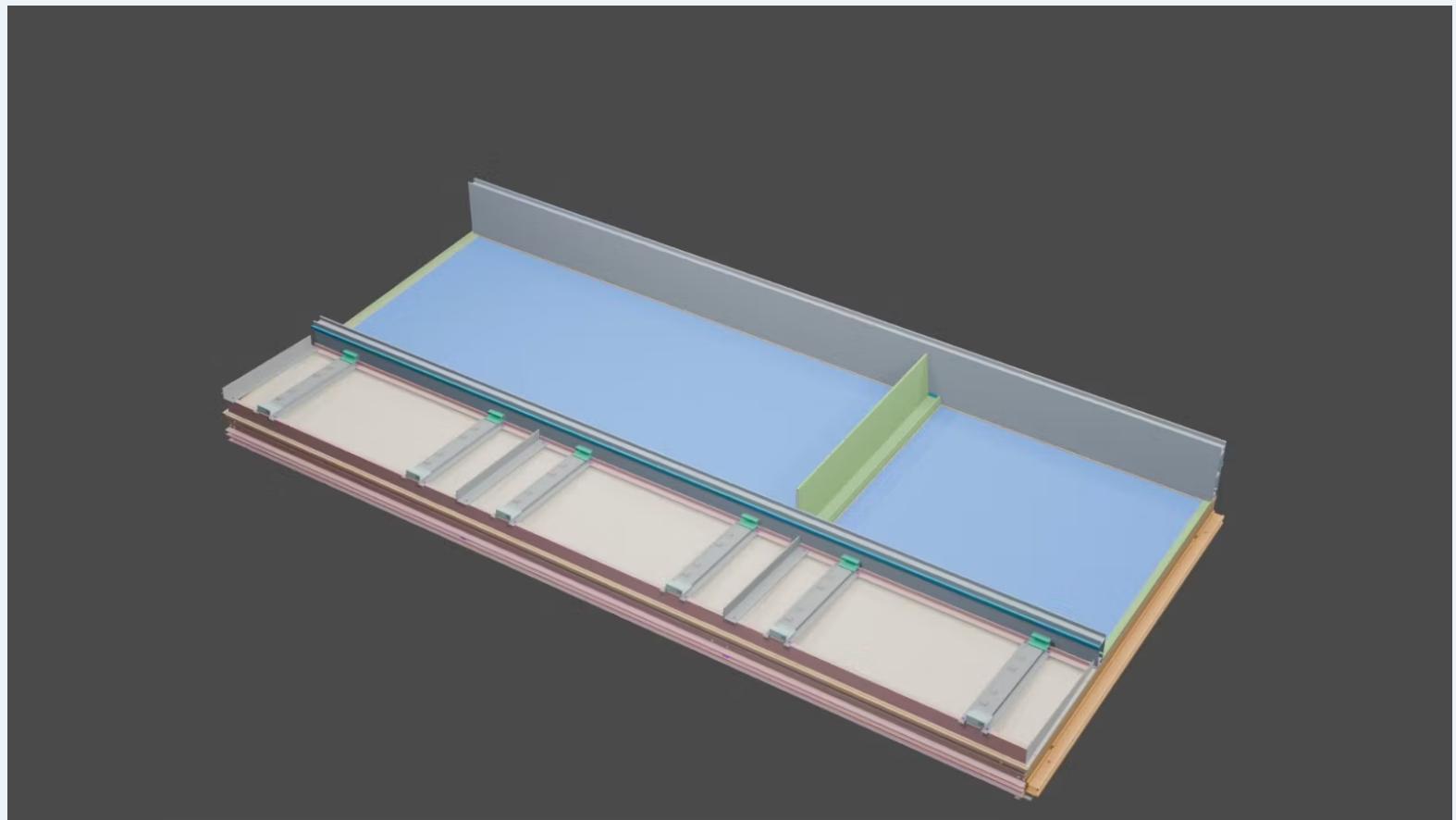
ZAŠTO JE SADA VRIJEME ZA ISKORAK?



Ideja iza našega modela

POČETNA IDEJA





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SLJEDEĆI KORACI: PUT PREMA ROBUSNOSTI

1

DODATNA EKSPANZIJA SKUPA PODATAKA (DATA AUGMENTATION)

2

MINIMIZIRANJE RAZLIKE U IZGLEDU STVARNIH SLIKA I 3D MODELA

3

IMPLEMENTACIJA POSE ESTIMATIONA

4

GENERALIZACIJA NA CIJELU PROIZVODNU

5

MVP DASHBOARD ZA QC

Built Once. Applied Everywhere.



Proizvodni procesi



Automobilska industrija



Skladišta

Mjerljivi rezultati rješenja

- KFK je uspješno implementirao naše rješenje

Rezultat toga je



Manje defekata u
proizvodnji



Brži QC



Manji troškovi

- Naše rješenje pronađe primjenu i u ostalim industrijama

HVALANA
PAŽNJI!



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