

# Safe, Standardised & Scalable Construction Robotics

Systematically closing the gap between construction reality, research, and engineering to deliver productive, site-ready solutions.

## Operational Diagnostics: Are You Facing These Challenges?

Unable to identify clear operational pain points

Cannot identify long-term economic viability

Unclear technical or safety requirements

Facing workforce adoption barriers on site

Unable to pinpoint measurable productivity gains



### From Challenge to Prototype

Structured diagnostic & workflow analysis. Task-specific functional prototypes in 6–12 months.



### Process-Driven & Measurable

Workflows benchmarked against baseline processes using harmonised KPIs for objective comparison.



### Pragmatic Engineering

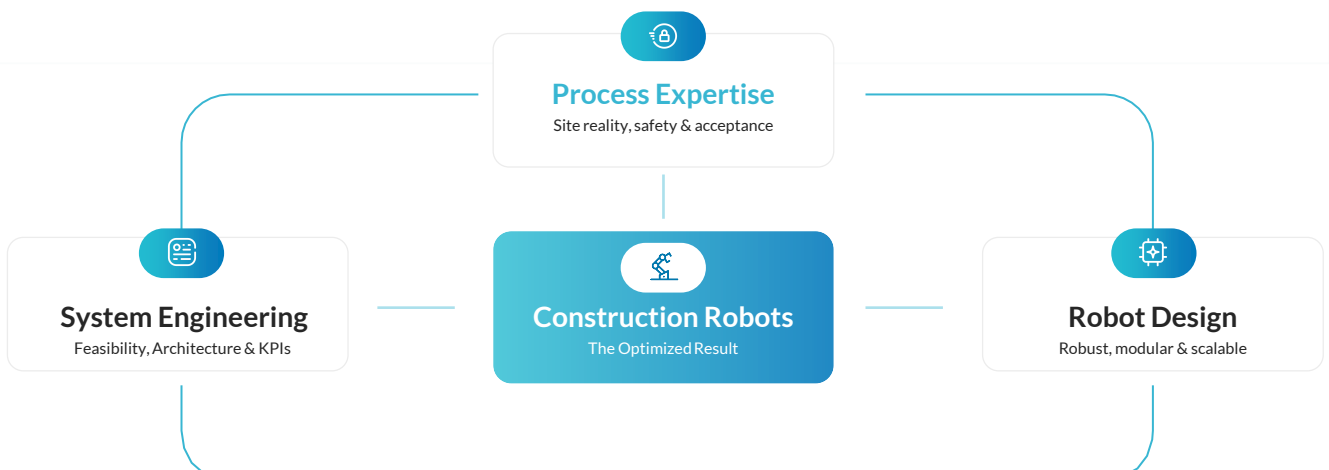
Simple, robust, task-adapted robots. Targeting piece costs of ~€30k for true economic scalability.



### Business Logic from Day 1

Feasibility, ROI, & financing models (CapEx, OpEx, RaaS) tailored to your specific business strategy.

## Our Unique Combination



# Comprehensive End-to-end Service





We offer either a [comprehensive end-to-end service](#) or [modular](#), tailored packages based on your resources and priorities.



## DELIVERY STREAMS





### Stream A: Construction Companies

#### Identify & Scale Robot-Ready Use Cases

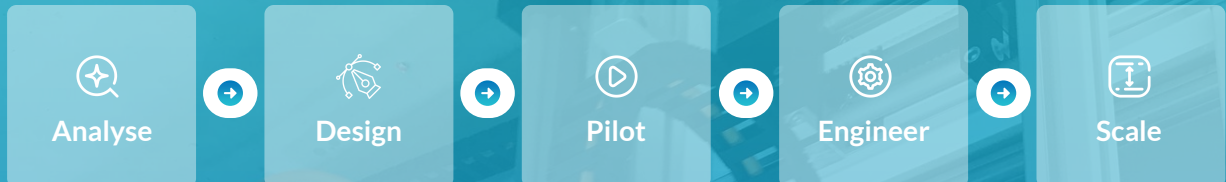
-  Translate site realities into safe, compliant workflows
-  Identify high-value robot-ready use cases
-  Integrate into site logistics & takt planning
-  Validate value with harmonised, measurable KPIs

### Stream B: Technology Providers

#### Turn Prototypes into Scalable Products

-  Align real site requirements with modular design
-  Ensure CE conformity & responsibility early
-  Execute comparative pilots & benchmarking
-  Develop Go-to-Market strategies (Sales, RaaS)

## HOW WE WORK



## METHODOLOGY



### Safety & HRC

ISO/TS 15066, ISO 12100, EU Machinery  
Reg 2023/1230



### Robot-Oriented Sites

Process harmonization, logistics integration  
& site adaptation



### Interoperability

Standardized common data  
environments & API standards



### Testing & Certification

Validation protocols, CE conformity marking  
& governance



# Teams & Skills

A unique mix of research rigor, industrial engineering, and site management experience.



**Prof. Dr.-Ing. Thomas Linner**

*Robot system architecture, standardization, robot validation*



**Prof. Dr.-Ing. Thomas Bock**

*Construction robotics strategy, robot-oriented design*



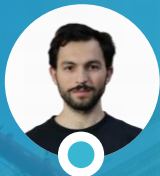
**M.A. Marc Schmailzl**

*Digital Pipelines for Construction Robots, BIM2Robot*



**Dr.-Ing. Wen Pan**

*Robot engineering & prototyping (Nova Spraytec)*



**Dipl. Ing. Soleman Haj Bakour**

*Construction Management & robot-oriented sites (AMARA Solutions)*



**Natalie Linner**

*Marketing approaches for construction robots*



**MBA Charlie Zhao**

*Business Models for Construction Robotics*



**M. Eng. Merve Karamara**

*Robotic 3d printing, technology management*

## Our Track Record

Decades of combined experience leading major initiatives worldwide. We combine deep expertise in research, real construction sites, industrial robotics



TRUSTED BY  
INDUSTRY LEADERS

