



Lars Lamet



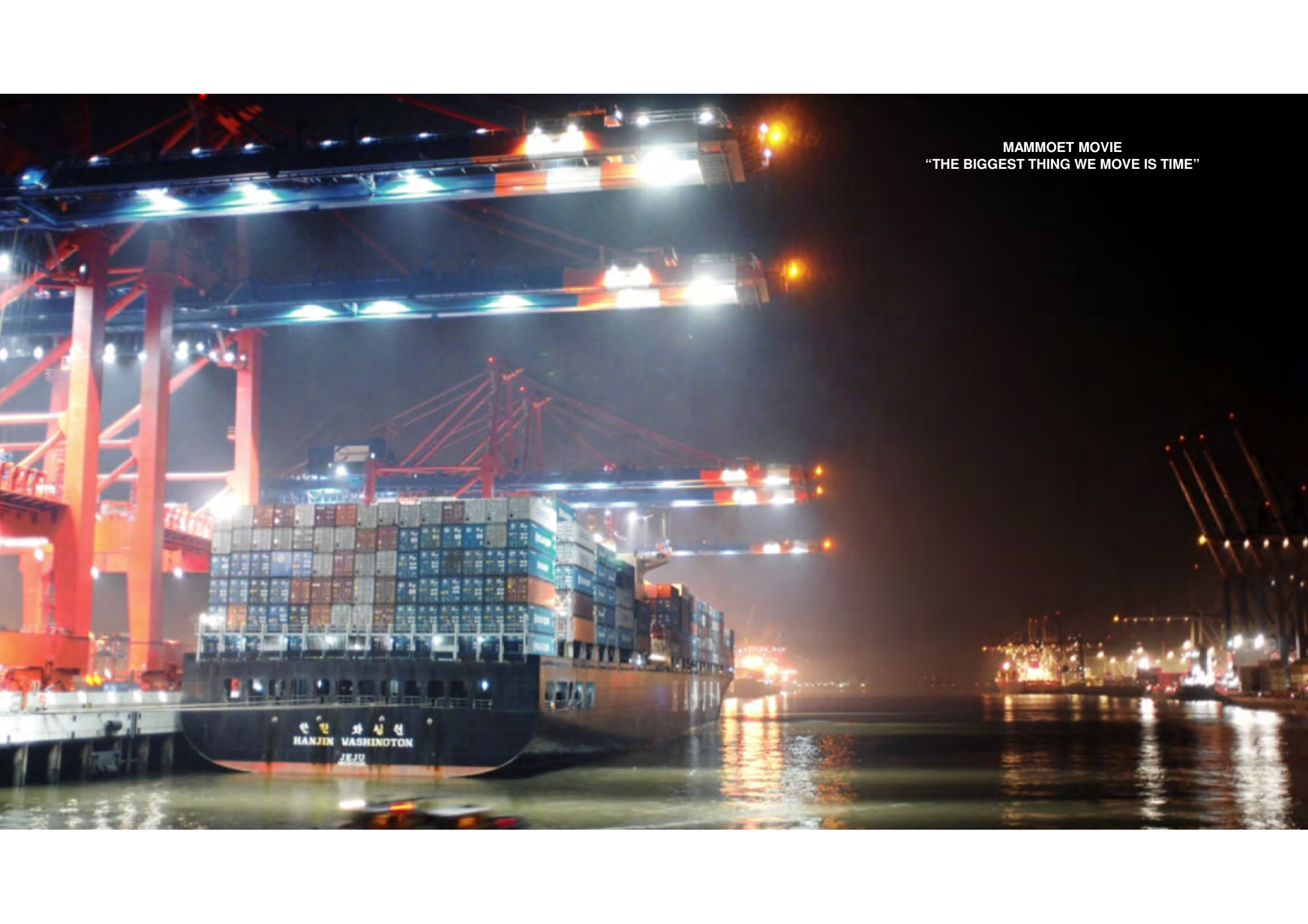
ENGINEERED HEAVY LOGISTICS



QUESTIONS TO PONDER.....

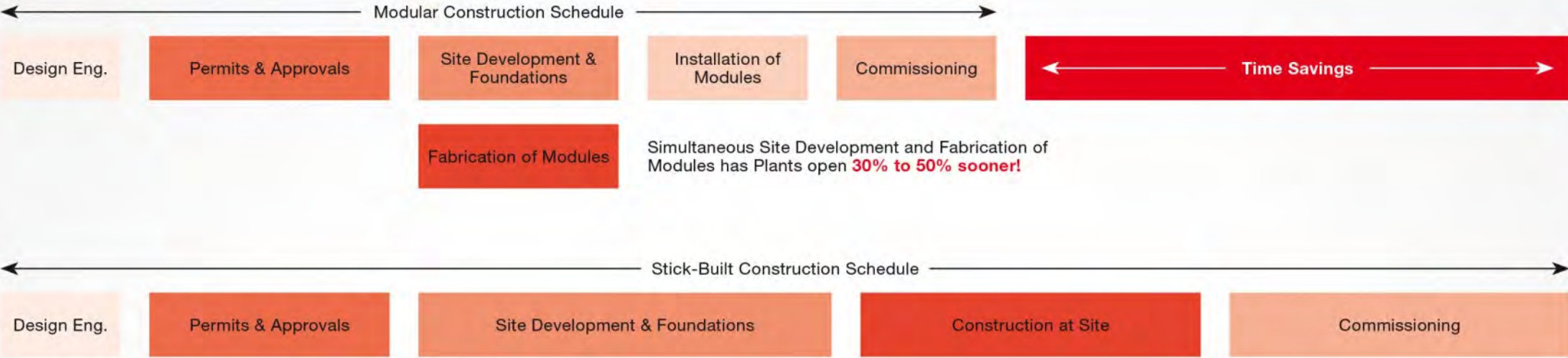
- Does anyone here have issues with availability of manpower on their projects?
- Does anyone here have issues with availability of equipment or material on their projects?
- Other than manpower and material, what else can you reduce to save cost?

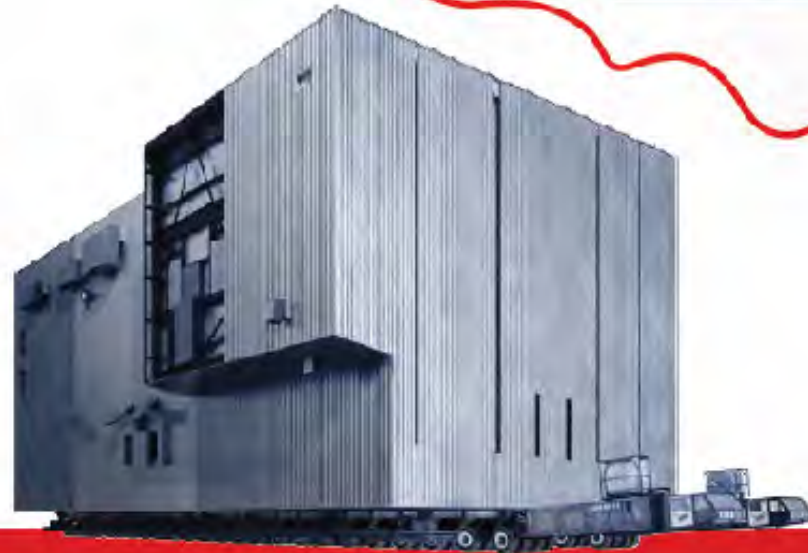
MOVING DEADLINES FORWARD



MAMMOET MOVIE
"THE BIGGEST THING WE MOVE IS TIME"

HOW DOES MODULARIZATION SAVE TIME?



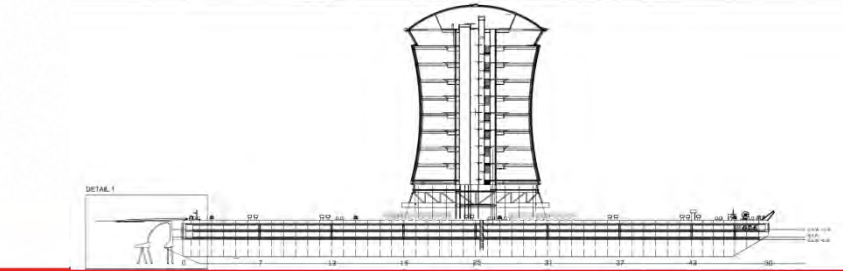


**MANY WAYS TO BUILD
A MINING PLANT IN THE
ARCTIC CIRCLE.
ONLY ONE WAY TO DO IT
IN THREE MONTHS TIME.**

In the remote DeLong Mountains of Alaska lies one of the world's largest sources for zinc - the Red Dog Mine. The weather window for building the processing plant was extremely small: only three months. As it was impossible to build the entire plant on location in such a limited time frame, Mammoet was asked to help conceive an alternative solution. Long before the first ore was processed, Mammoet began orchestrating a plan to build, transport and install the plant in large-scale modules.

Discover more on mammoet.com

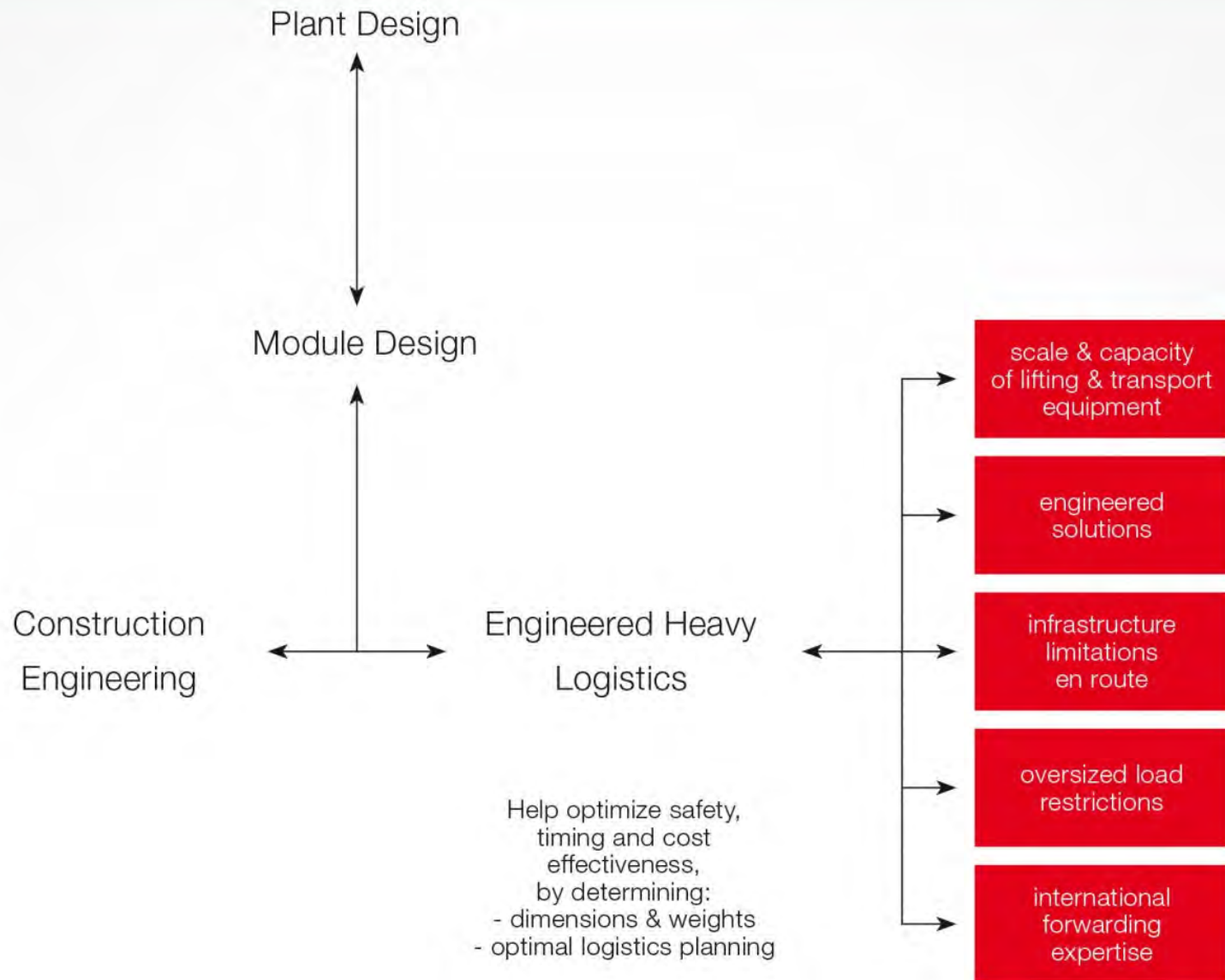
MAMMOET
THE BIGGEST THING
WE MOVE IS TIME





WHAT MUST BE CONSIDERED BEFORE WE START TO DESIGN MODULES?





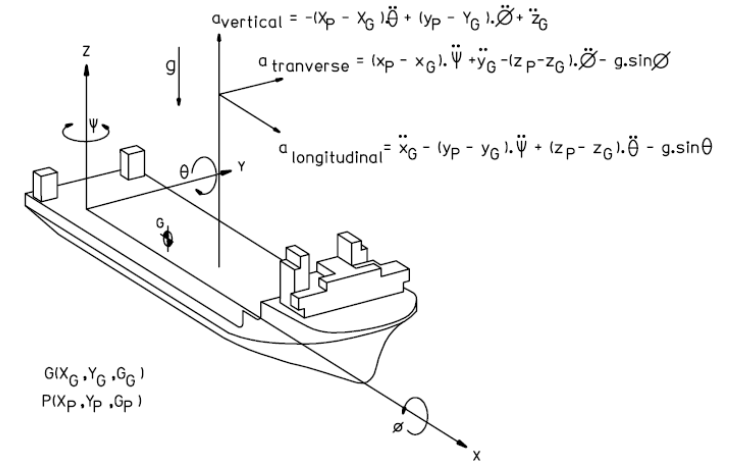
WHERE WILL THE FABRICATION TAKE PLACE?



AVAILABILITY OF SUITABLE SHIPS AND BARGES



INCORPORATING TRANSPORTATION LOADS IN THE DESIGN OF STRUCTURAL STEEL



WHERE TO START?



PERMITS, REGULATIONS, LAWS



LOGISTICAL CONCEPT



WHAT ARE THE (LOCAL) CHALLENGES?

**BRINGING
TOGETHER A
\$3 BILLION
PLANT
IN 800 DAYS.**

**VALE LONG HARBOUR,
NEWFOUNDLAND**



IN WHICH ENVIRONMENT ARE WE WORKING?



**SLOWLY
CROSSING THE
DESERT IN
A HURRY.**

**SHAYBAH,
SAUDI ARABIA**



WHAT SIZE OF MODULES CAN BE REALISTICALLY MOVED?



INFRASTRUCTURE LIMITATIONS



ON-SITE



MOVING DEADLINES FORWARD

EARLY INVOLVEMENT

PARTNERSHIP

MAMMOET





THANK YOU FOR YOUR TIME

