

R & D Required in Infrastructure

Dr Ganga Prakhya
CEng FICE FStructE Ph D (Cantab)

Buildings

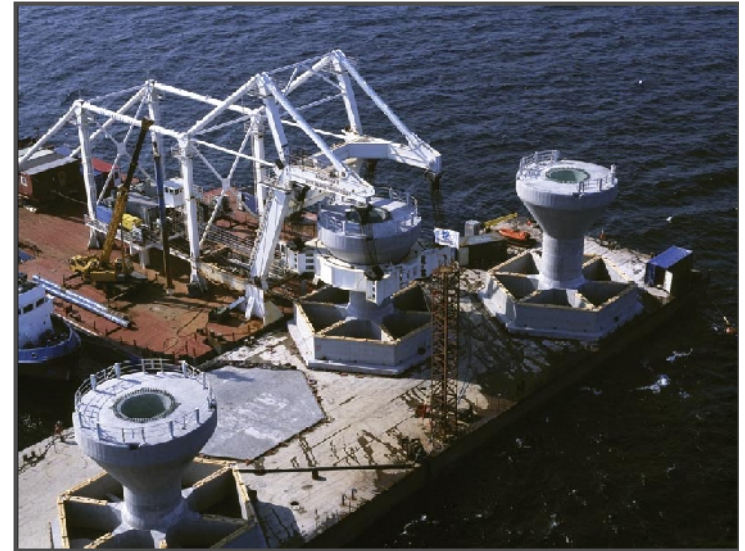
1. Integration of Services
Below Ground
2. Asset Management
Systems
3. BIM

Heavy Civil Engineering

1. Integration of Temporary and Permanent Works
2. Influence of methods of piling/diaphragm walls and their effect on movement of infrastructure

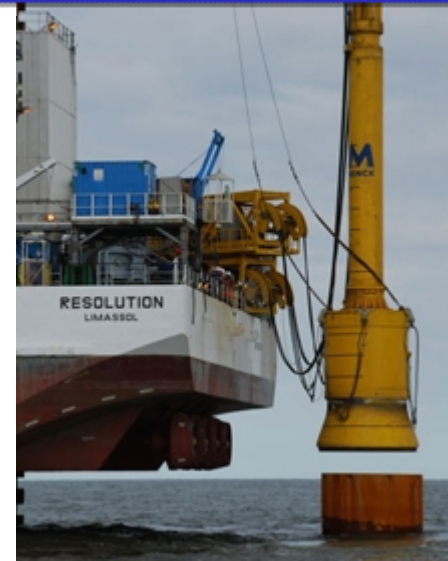
Heavy Civil Engineering Offshore Structures

Scour predictions for
Gravity Based structures and
monopiles for Deepwater Wind Farms



Offshore Wind Farms

Piling Driveability issues
in various strata in deep
UK waters offshore



Materials

- Innovative Materials and Methods of NDT
- Properties of High Strength Concrete both static and dynamic
- Use of Recycled Aggregates in High Strength structural concrete

Research Needs

Transport Infrastructure

- Long Term sustainability transport infrastructure

- Assessment and Asset management