

Guidelines on array effects for wave farm design

Matt Folley

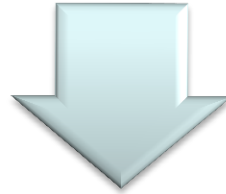
QUB



How to design wave farms for minimum cost of energy?



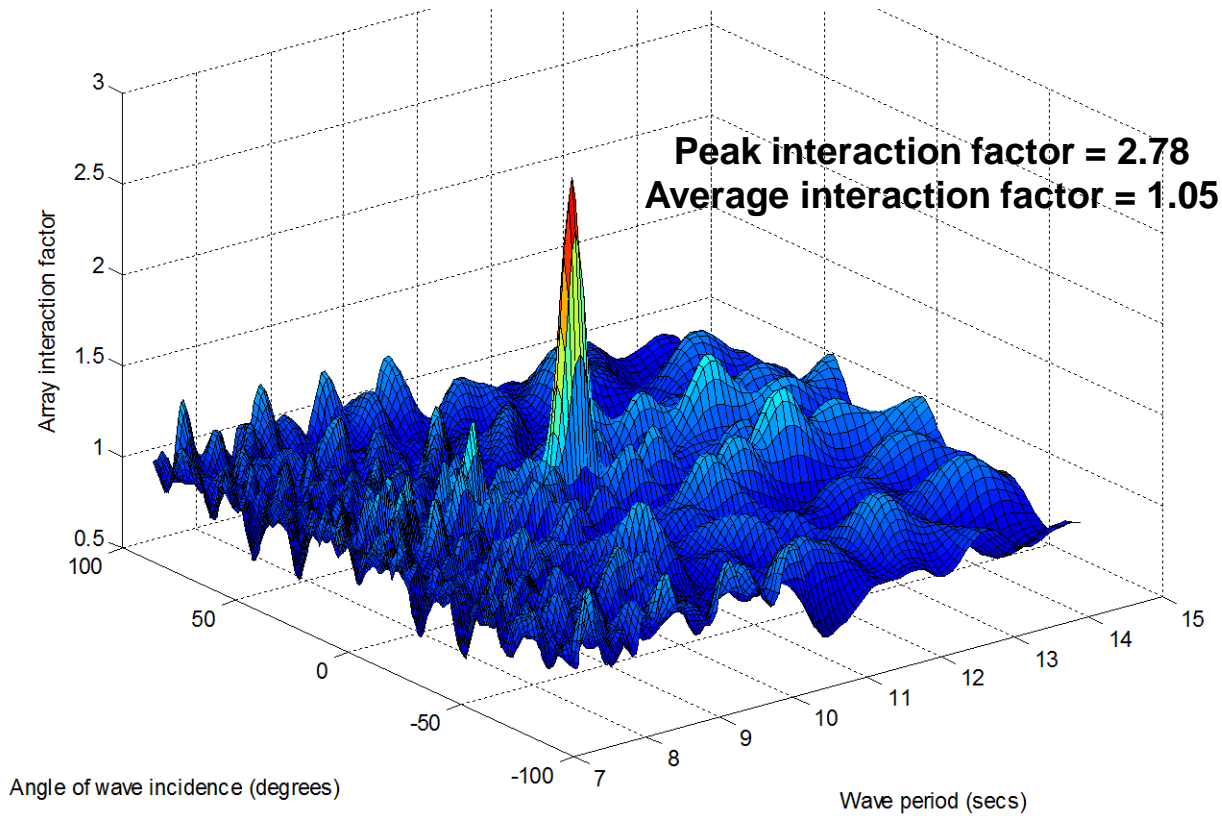
Research into
WEC array
performance

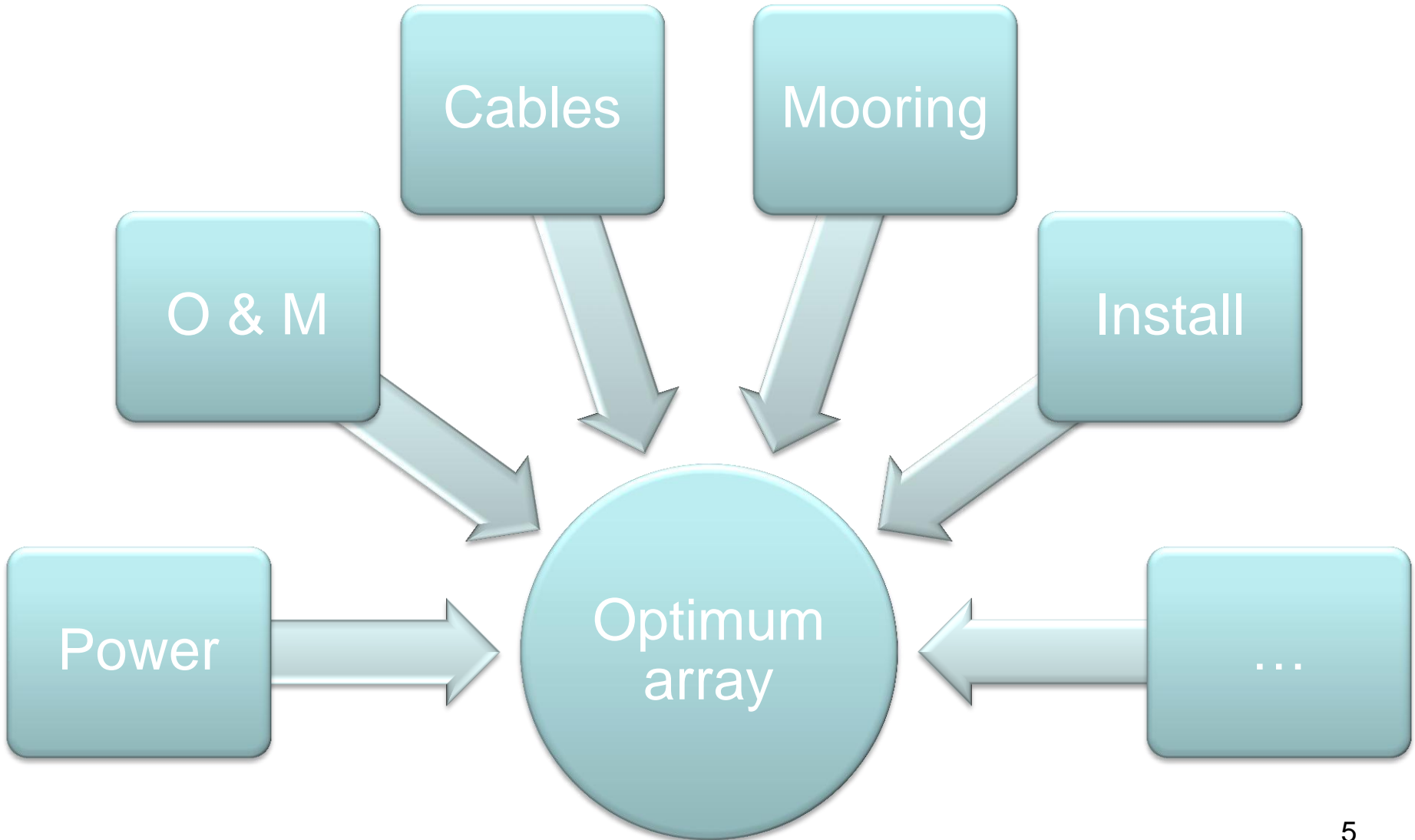


Guidelines for
developers



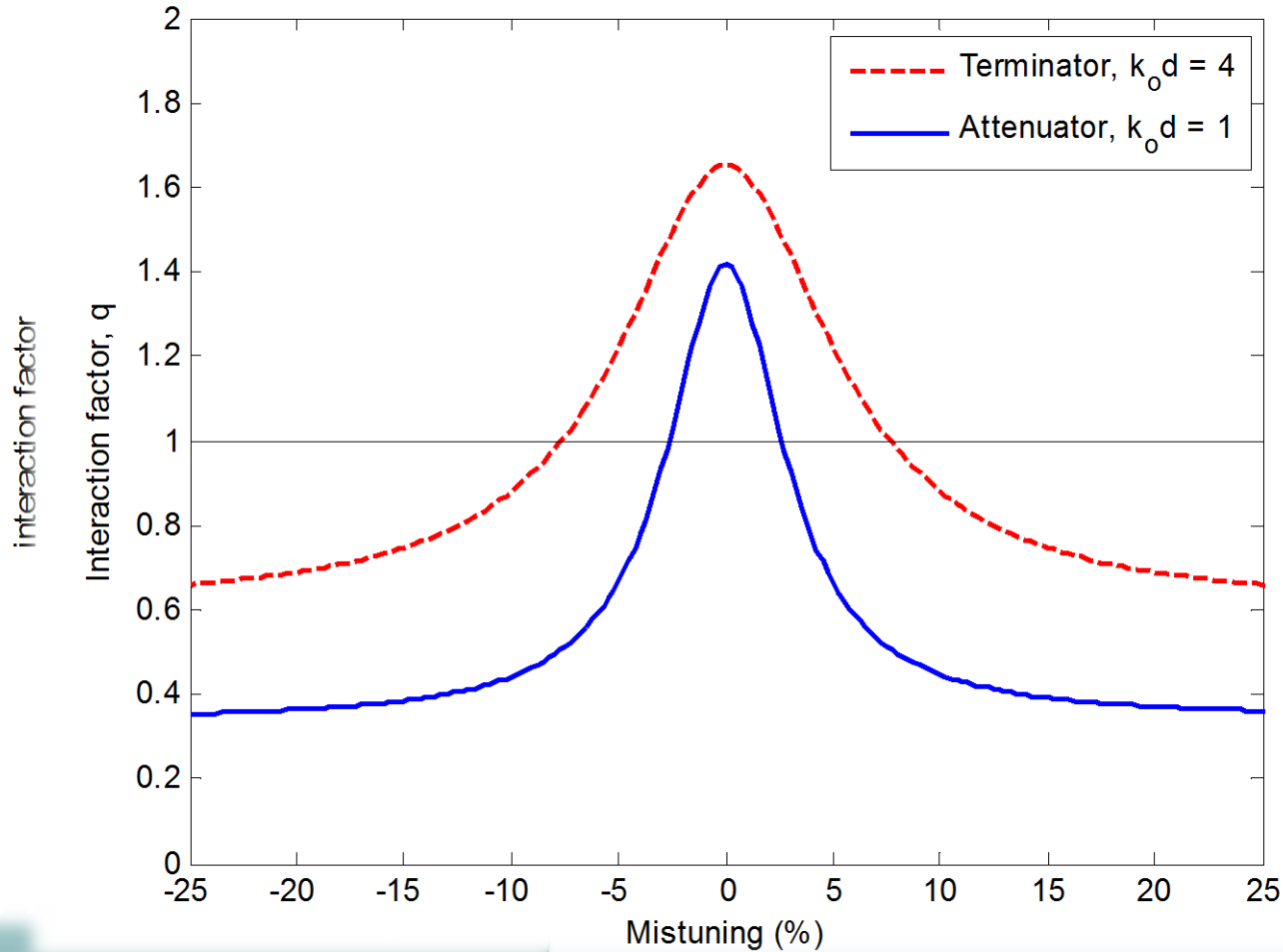
Variation of interaction with wave period and direction For optimal 5 WEC array







Cha Sensitivity of interaction factor on with sepa for pair of WECs





Short-term

- Array effects small
- 5 -10 % power
- Higher density larger interaction

Long-term

- Development of suitable modelling tools
- Understanding of all factors



Queen's University
Belfast



Thank-you