

# Lowering capex of swac systems part 2

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HOW A STATISTICAL RISK ANALYSIS CAN HELP OPTIMIZING SWAC CAPEX

# Last episode fast summary

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NOV 2014 – SANTO DOMINGO

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# Statement of the SWAC today

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Today :

- 5 Deep SWAC constructed in 35 years (1,5 per decade)
  - 10+ projects studied today
  - So, full success ???
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- ▶ Yes, but most projects suffer delays and budget overdrafts
  - ▶ So, what is the next step to market ?
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- ▶ **Reducing CAPEX !**

# 4 ways of reducing CAPEX

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Right sizing

Water speed

Extensive thermal use of water

**Off-shore works**

# Offshore works

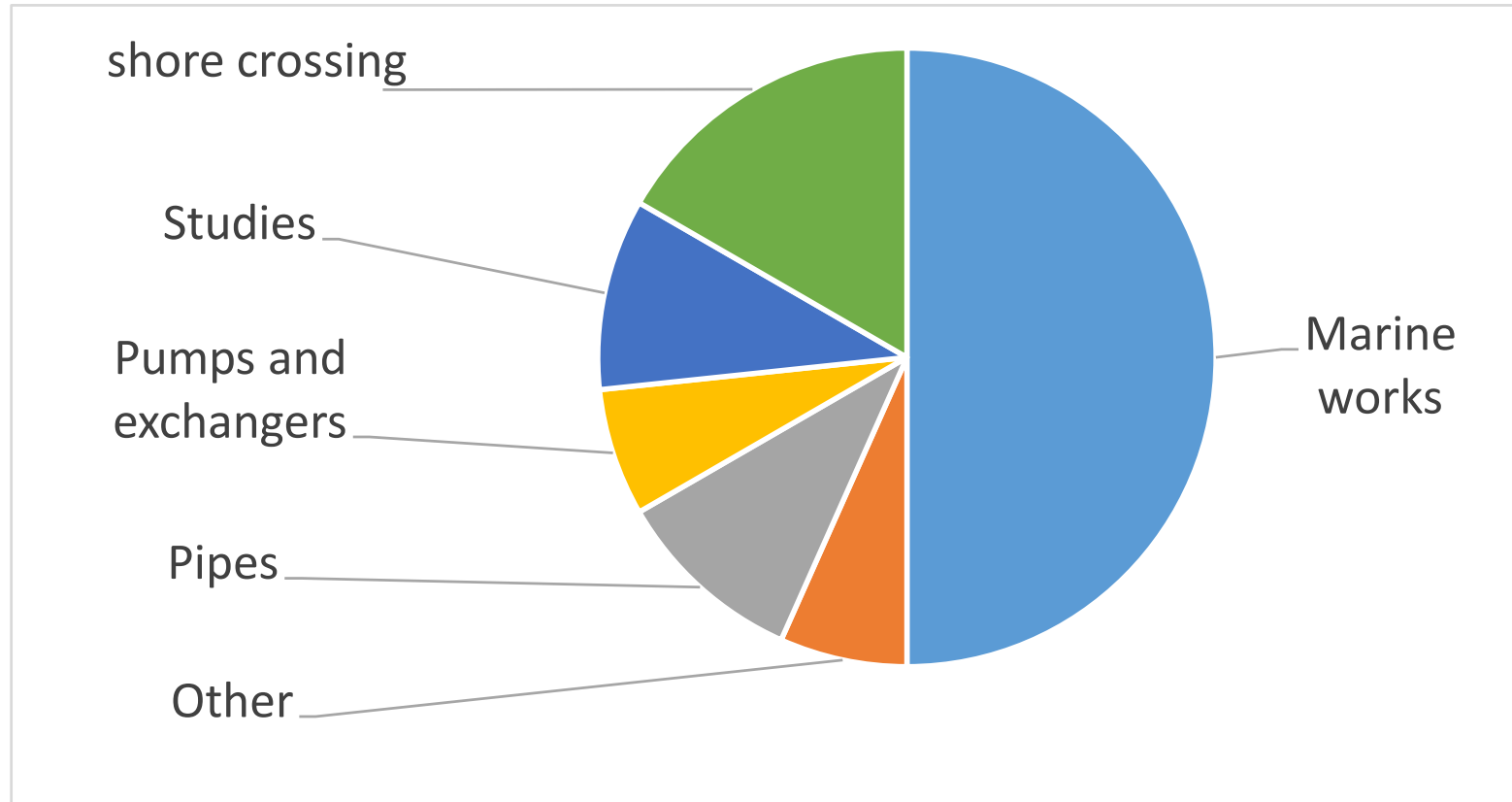
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A STATISTICAL STUDY FOR OPTIMIZING CAPEX

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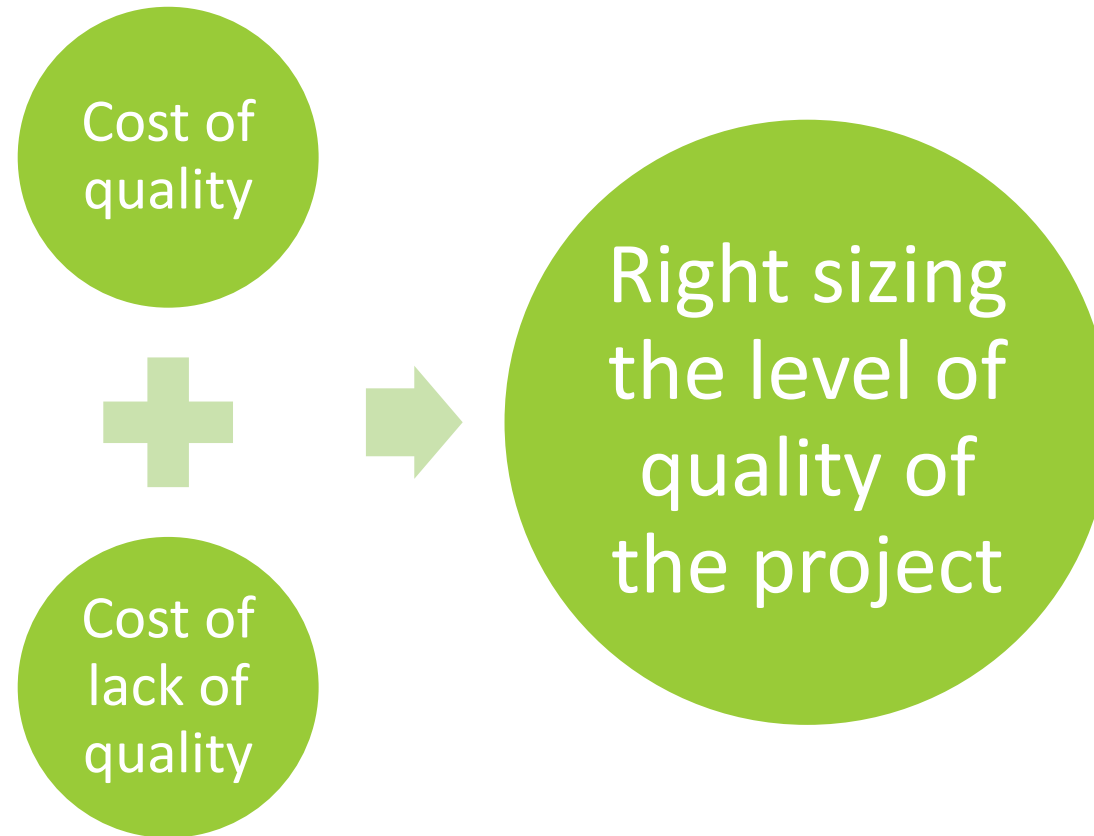
# Why choosing optimization of marine works ?

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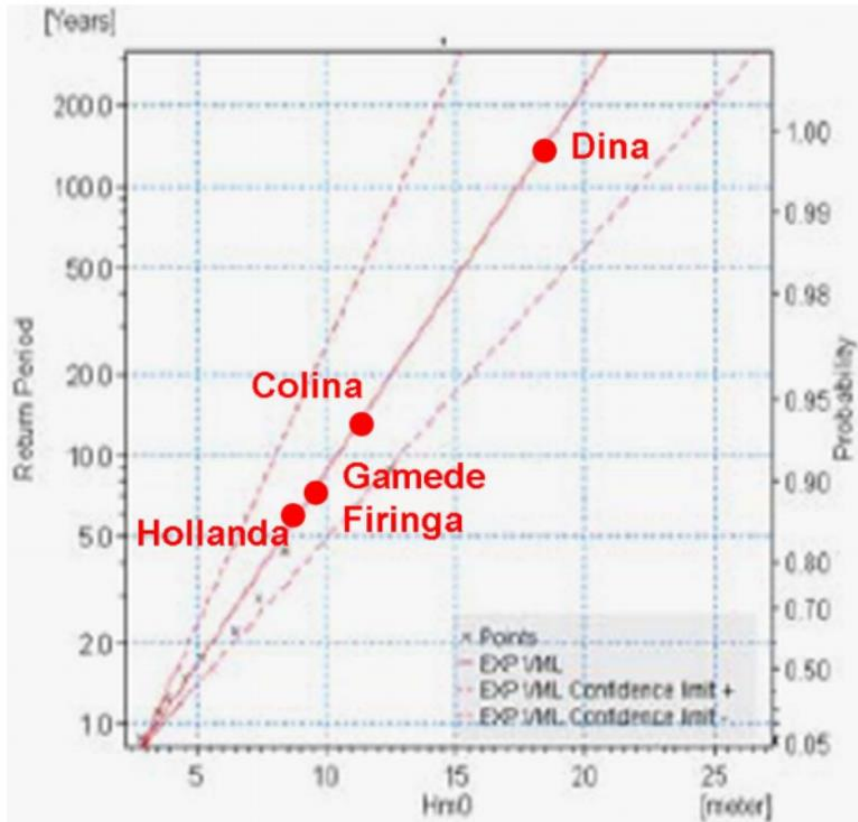


# Methodology

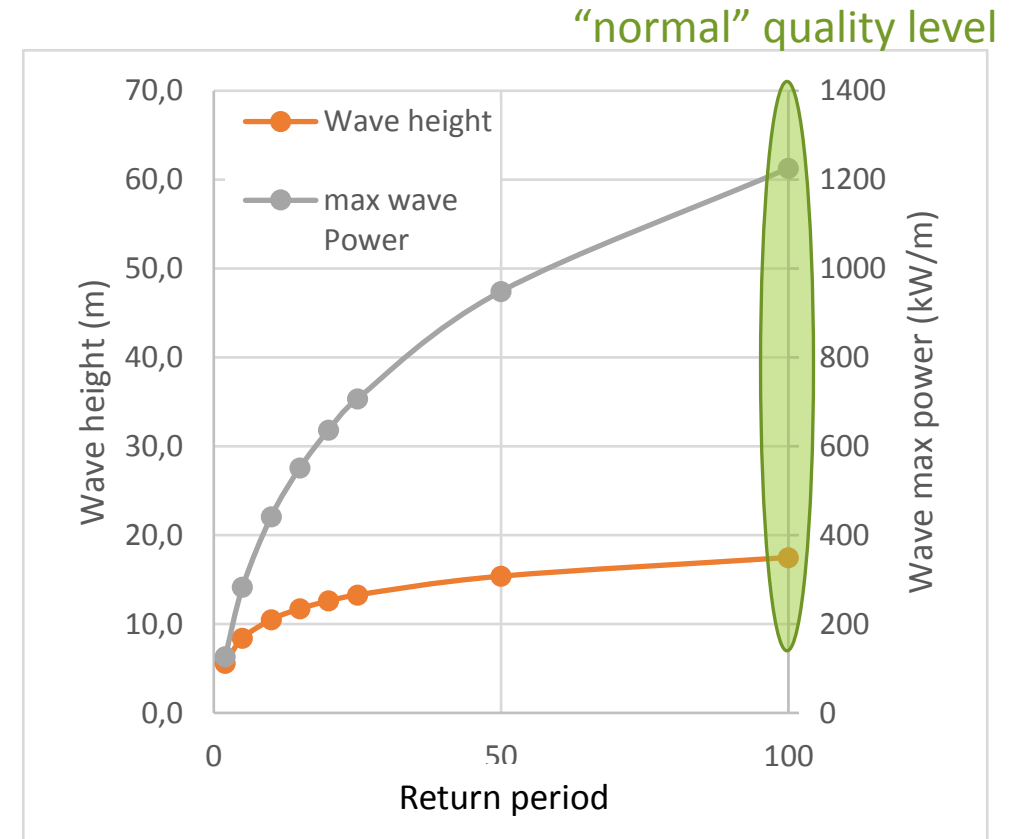
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# How to choose a quality level ?

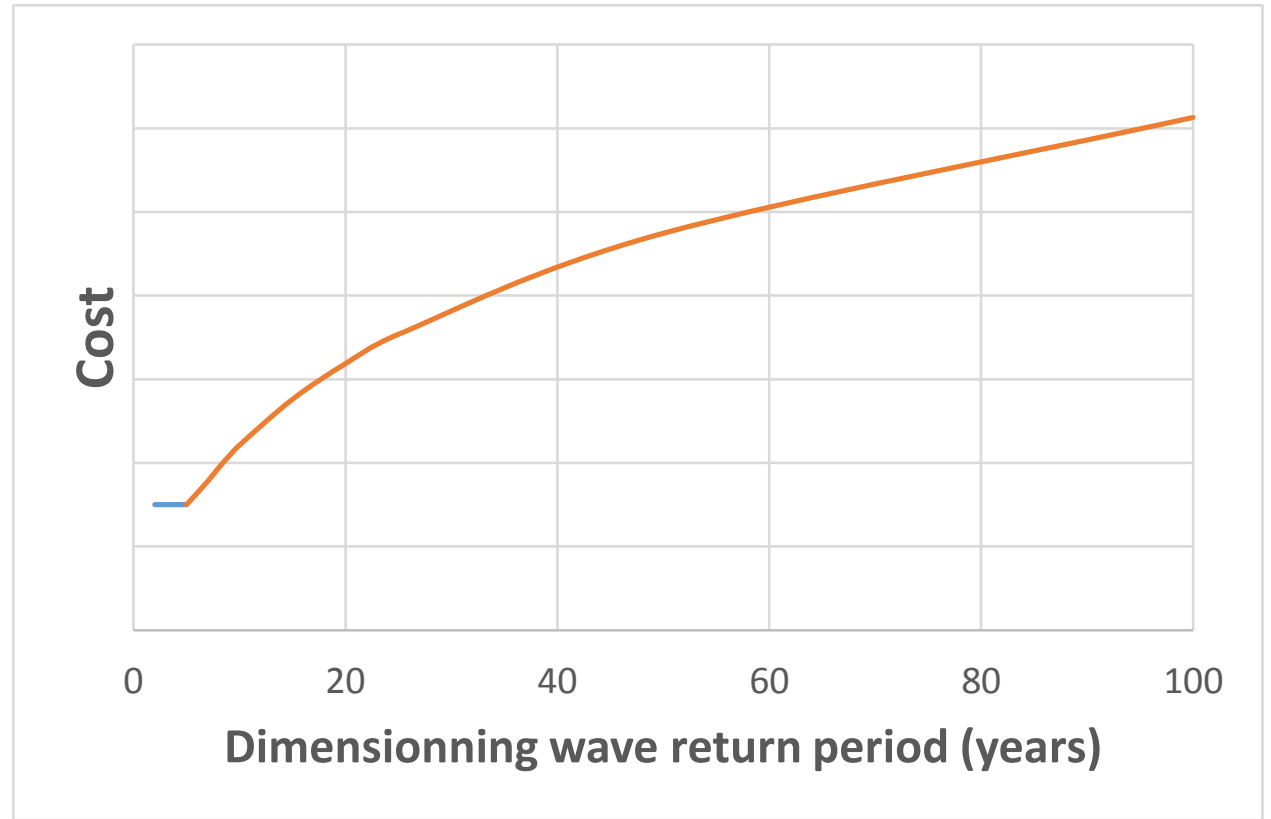
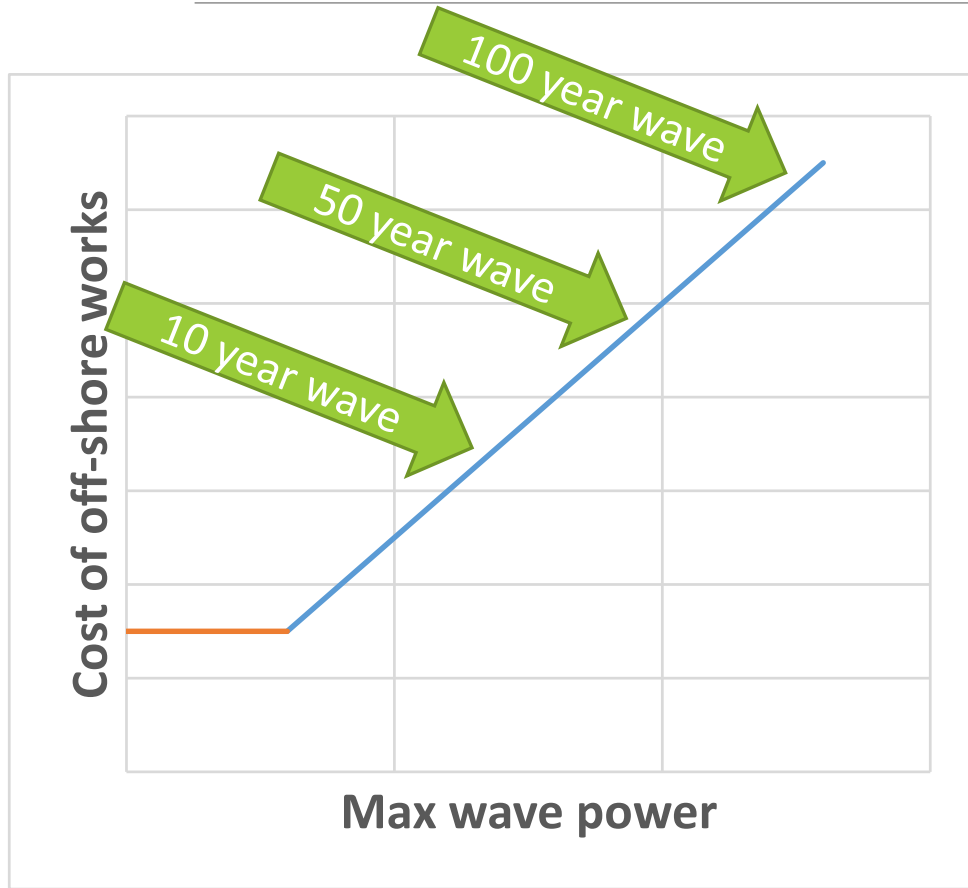


Source : BRGM





# Project quality sizing

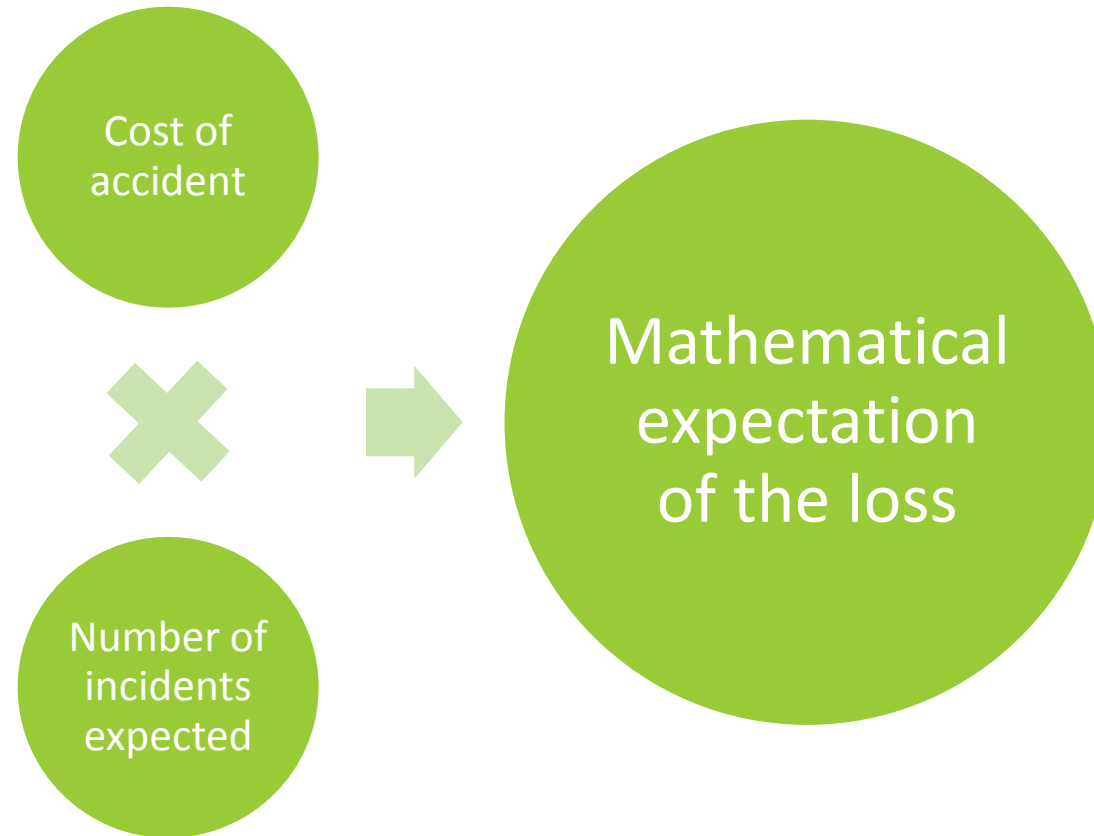


Price of lack of quality

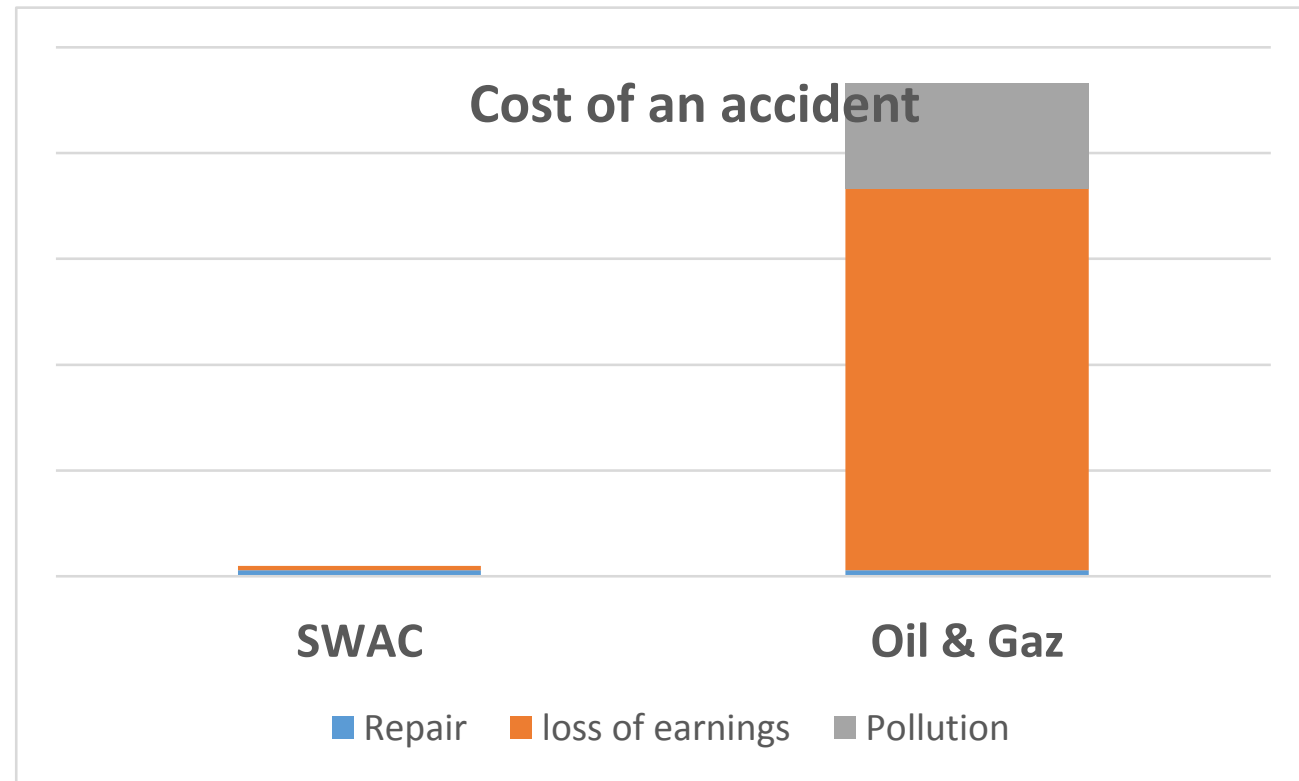
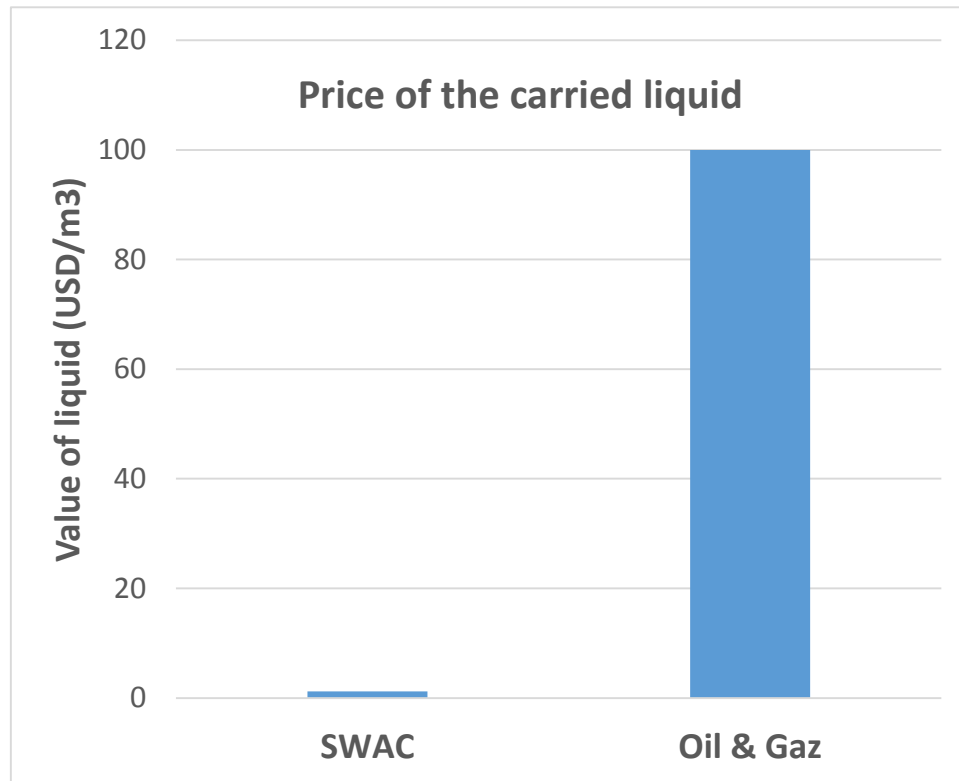
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# Methodology

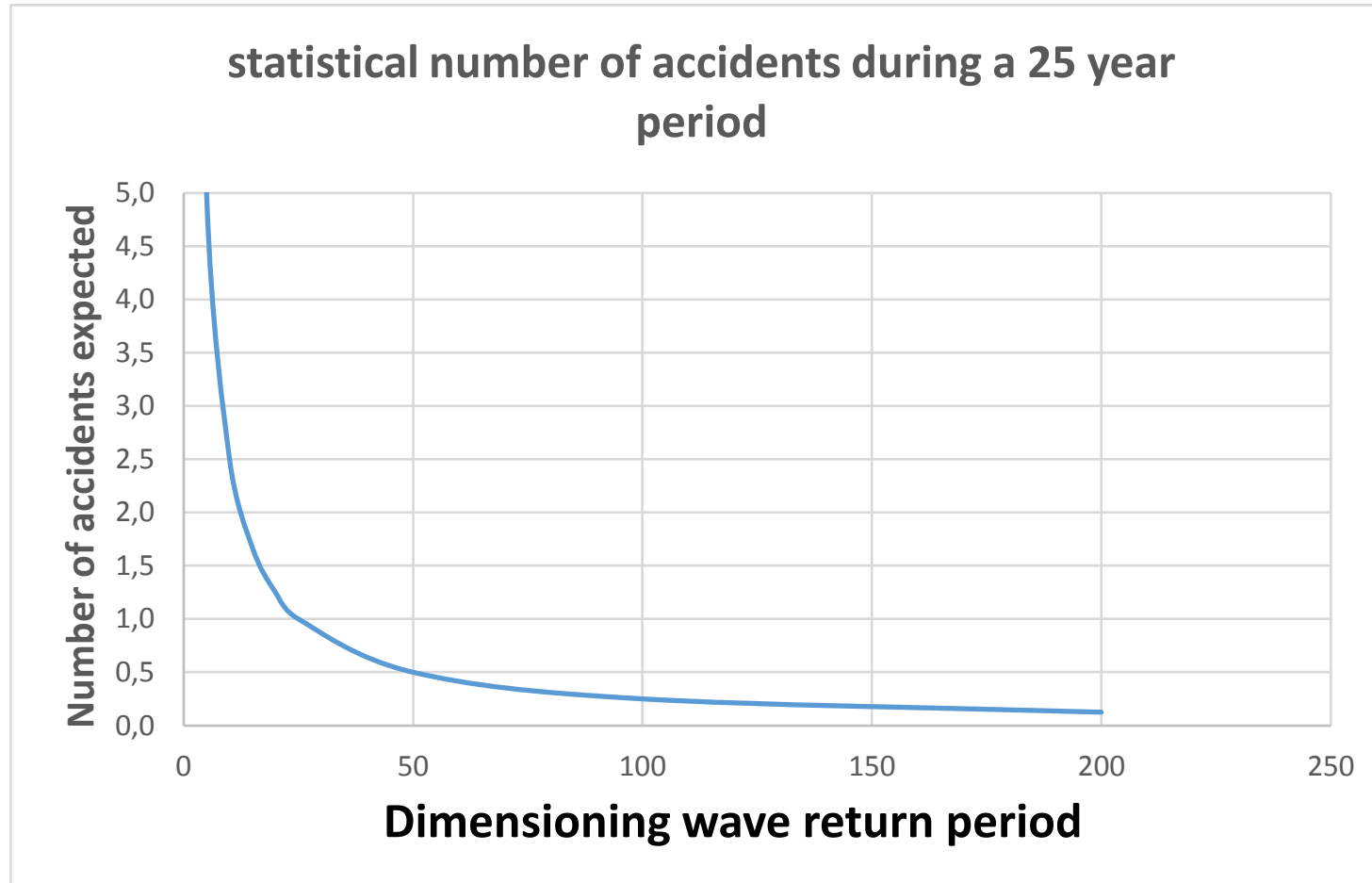
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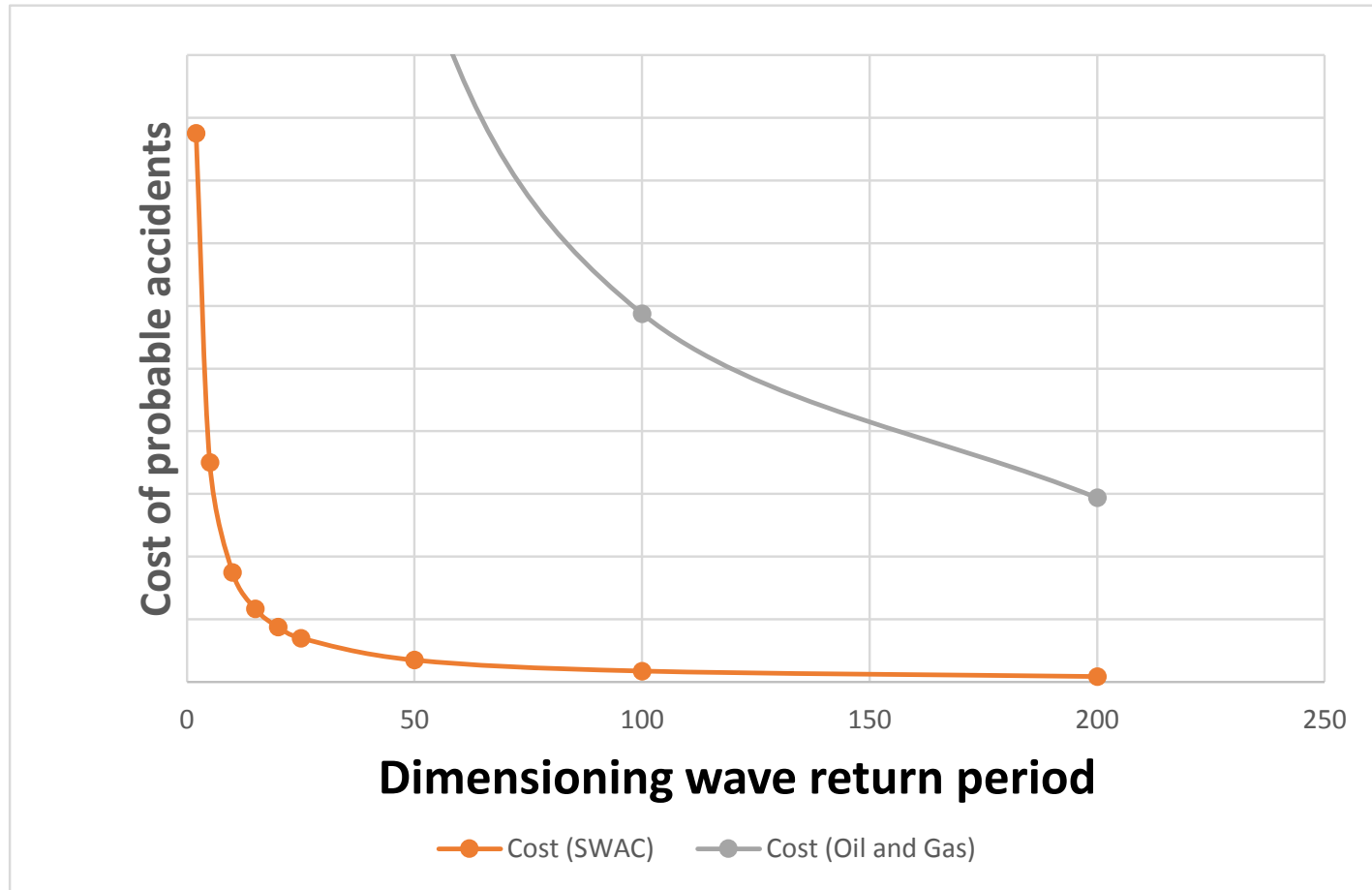
# Cost of individual incident



# Number of incidents statistically expected

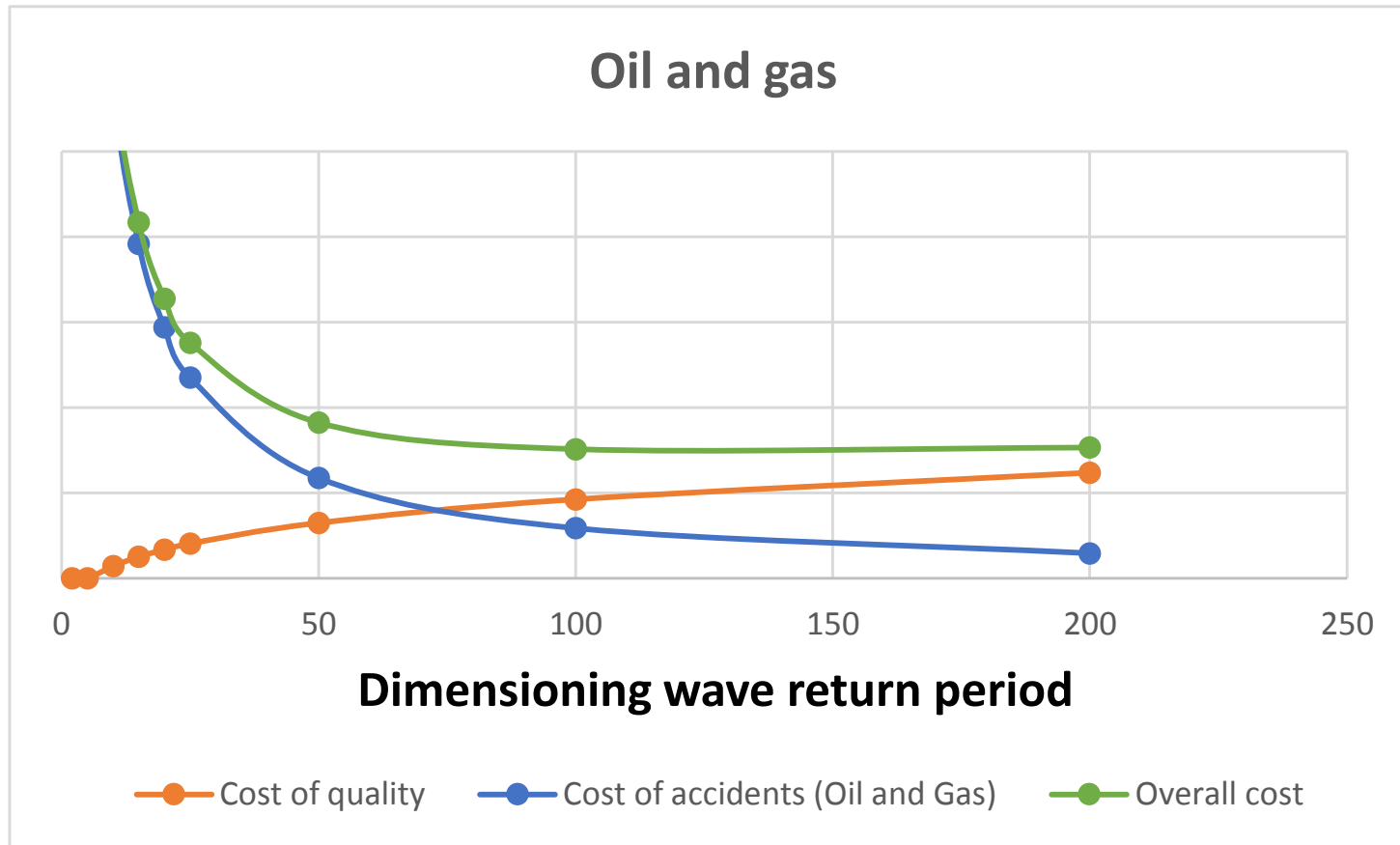


# Cost of the lack of quality

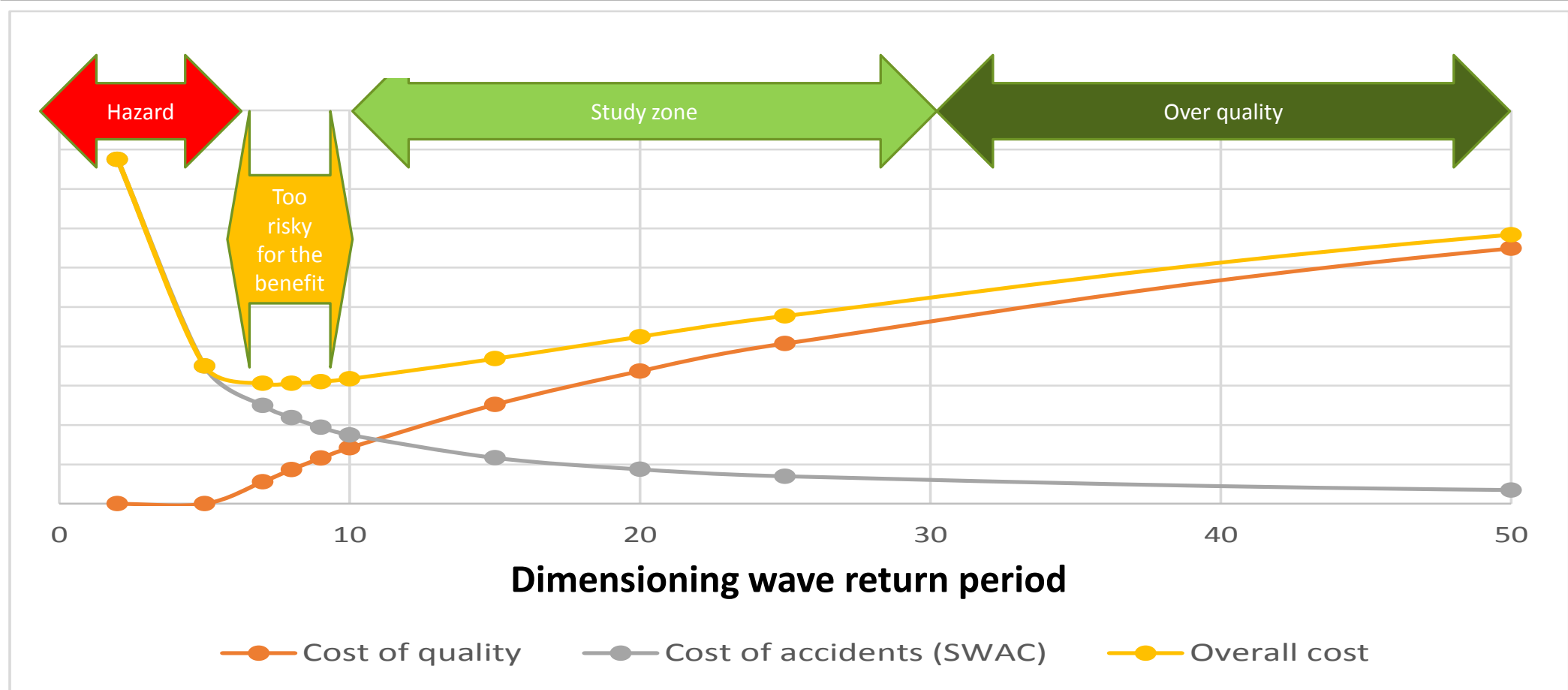


# Conclusion (Oil and Gas)

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# Conclusion (SWAC)





Thank you very much

Muchas gracias

Merci beaucoup

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ceo – dpi

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