THE OPAL | COMPUTATIONAL DESIGN

DIGITAL WORKFLOW

Rasmus Holst – Computatinal structural engineering

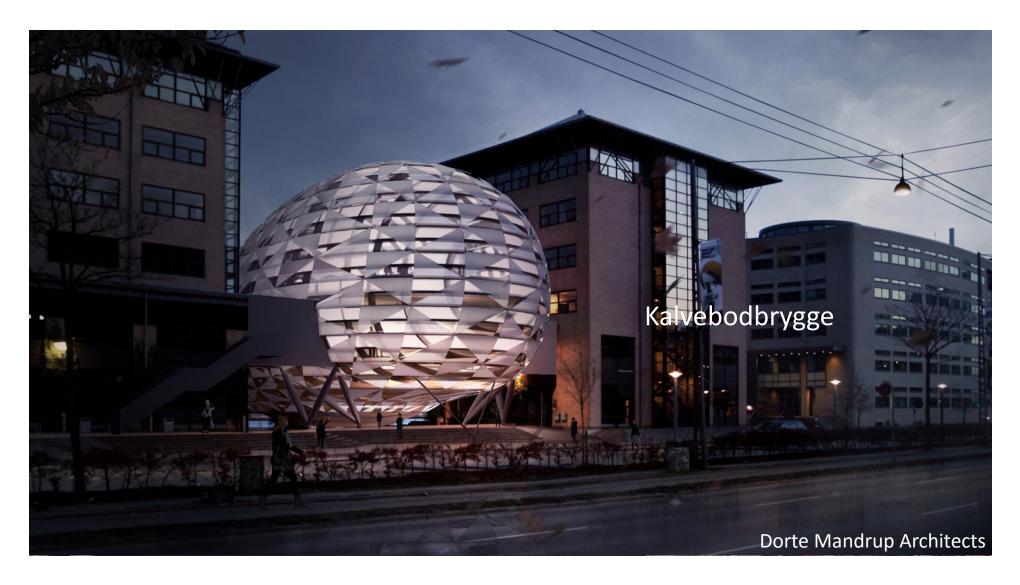








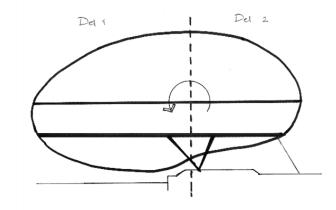
THE OPAL - IDA

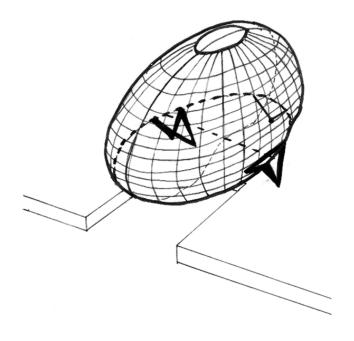


INTRODUCTION

THE OPAL – KALVEBOD BRYGGE

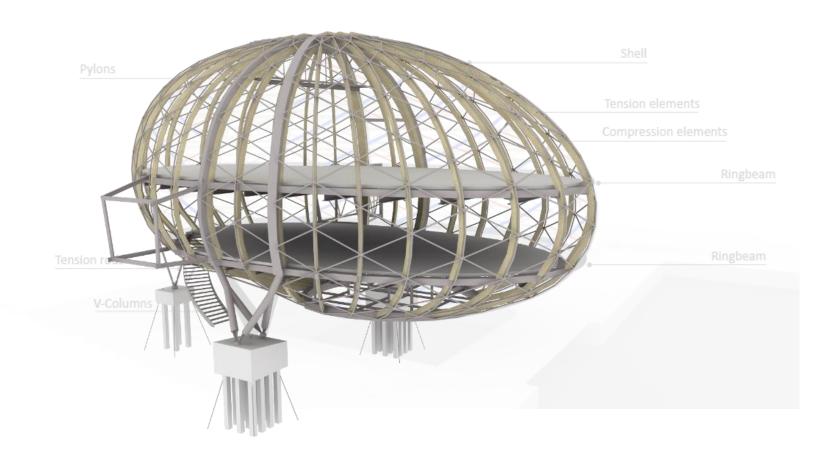
- Cantilevered gridshell
- Restaurant & conference
- Freeform geometry
- Steel / timber hybrid
- Computational design
- Integrated design



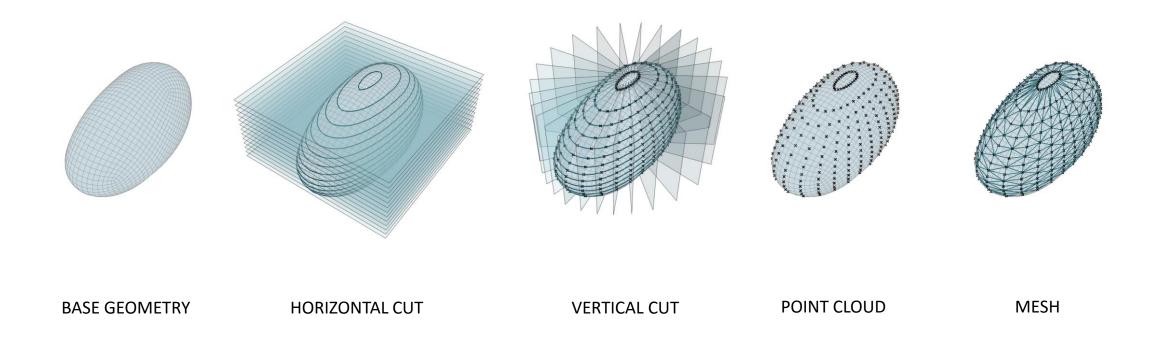


STRUCTURE

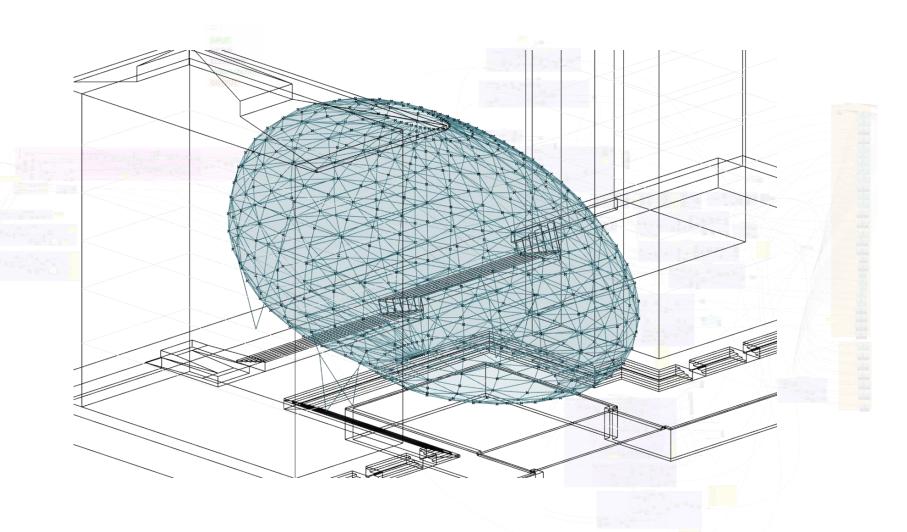
STRUCTURAL PRINCIPLE



GEOMETRY



CENTRAL GEOMETRY

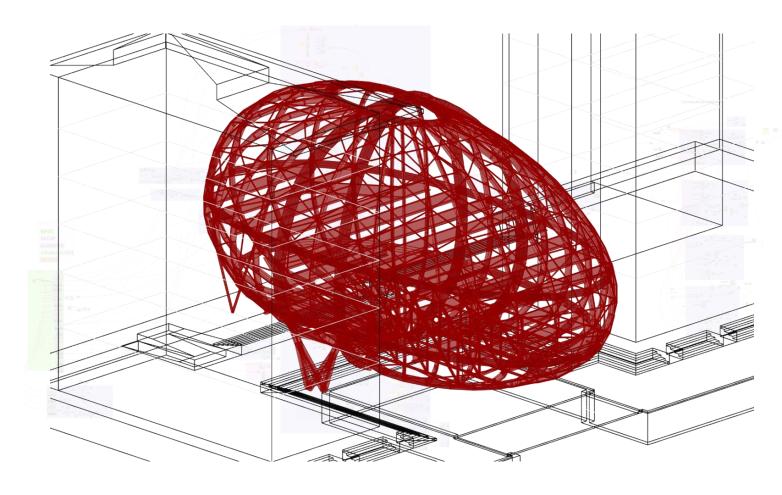








STRUCTURAL MODEL





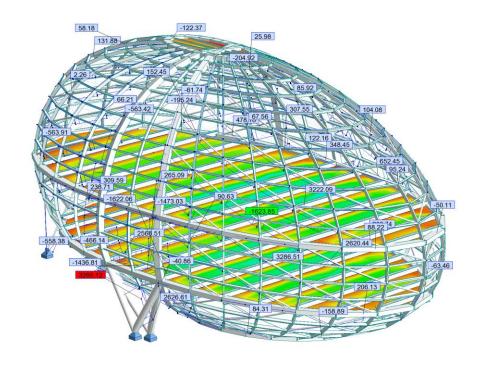








STRUCTURAL FEM MODEL





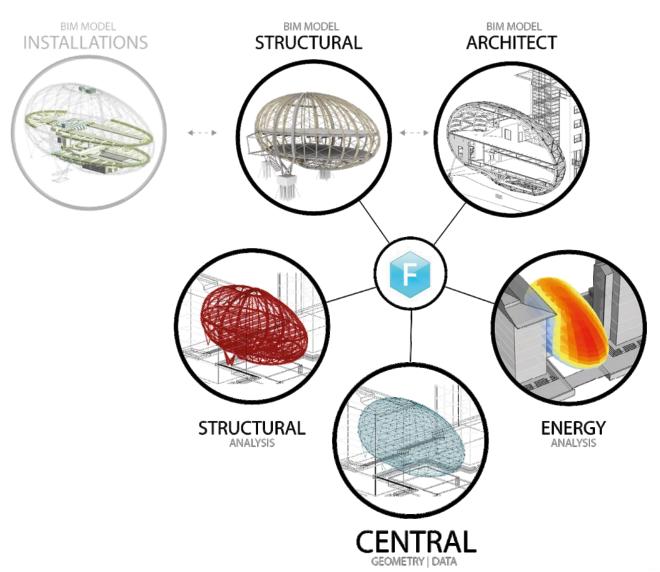


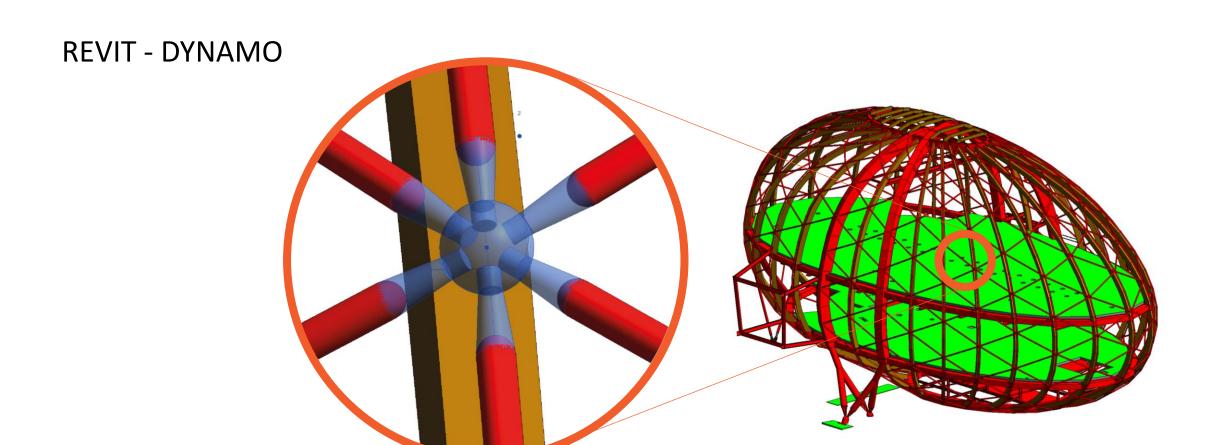






OVERVIEW







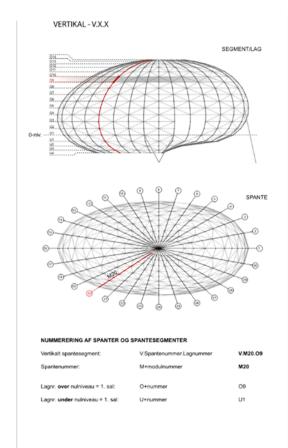


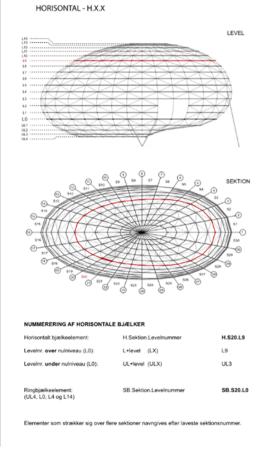


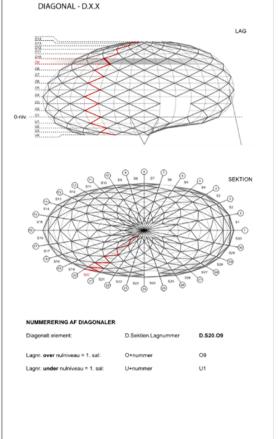




SYSTEMIZED DATA - NAMING









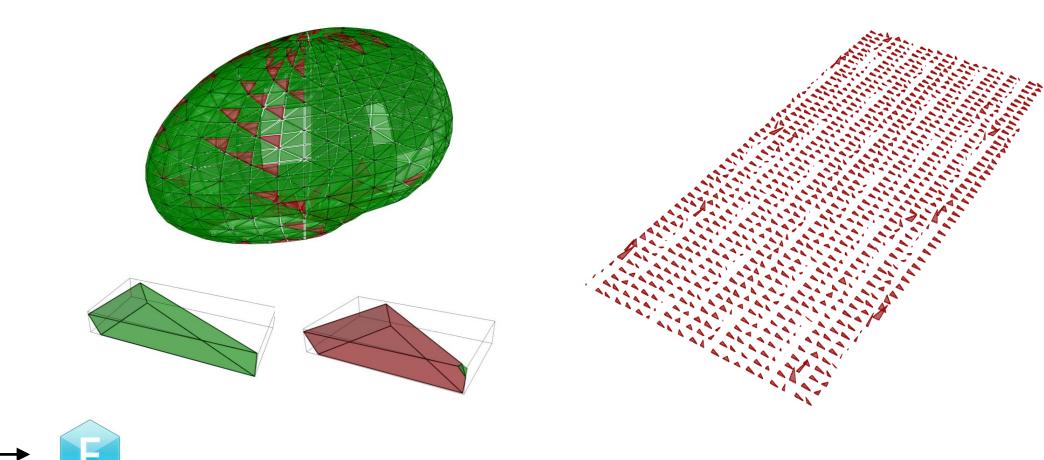








STUDIES – FAÇADE | BUILDABILITY



CONCLUSION

System

- Central script
- Discipline specific scripts

Advantages

- -Linked reference geometry
- -Parametric models across disciplines
- -Iterative design process
- -Stop / Go option

