Introduction
Research questions

- How can you develop a compact Olympic Games that also can be reused or redeveloped for the period after the Olympics?
  - research how other major (sports) events or developments can be part in the process of developing the Olympic Games?

- How can you create a (sport) accommodation that can be used for multiple functions (and on different locations) by using the water as an advantage and quality?
Research
Conclusion research

- Well organized Olympic Games can have a positive influence on the organizing city, which can improve structurally, as well the infrastructure and public spaces can benefit majorly.
Thinking ahead on a long term base can prevent unnecessary investments; especially by focusing on the building scale; the use and re-use of facilities after the Olympic Games.
Conclusion research

Two interesting options for hosting the Olympic Games; Amsterdam & Rotterdam. The Rotterdam harbor is chosen to become the location for the Olympic Games.
The water has enormous spacious qualities and offers a lot of possibilities for flexible use and movement.
Principles
Principles

- **Multifunctional and flexible use must be one of the leading aspects.**

- Stadium must be designed within thought of long term use.

- The Olympic Stadium and Park must be the icon of the Olympic Games and can show the Netherlands as one of the leading countries in water development. The Rotterdam harbor offers the possibilities for this.

- The stadium must have a strong relation with the water and therefore must be used as an advantage for the urban and building concept.

- The floating aspect of the water is the most interesting one for the building. Especially the movement over the water gives opportunities for the concept.

- Optimal experience of games or other events by the spectators. The form of the stands and the distance to field play a big role in this.
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Concept
Concept

- Multifunctional
- Flexible
- Water
- Icon
- Routing
Concept
Concept
Concept
Concept
Submarine

Principle submarine
Concept
Concept
Concept
Concept
Experience
Routing

Supporters 1st ring  
Supporters 2nd & 3rd ring  
V.I.P's
Floors
Floors

Entrance ring 3

Entrance ring 3

V.I.P boxes

Entrance ring 2

Entrance ring 1

Non public functions

Parking

Floating installations
Principle routing
Routing

+04
3rd ring

+03
3rd ring

+02
2nd ring

+01
2nd ring

00
1st ring
Routing
Routing
Routing
Routing

+ 04
3rd ring

+ 03
3rd ring

+ 02
2nd ring

+ 01
2nd ring

00
1st ring
Location - Rotterdam
Location - Rotterdam
Routing – Entrance stadium
Construction - Float body

Forces
- construction base

Compartments
- Free fluid effect
- Safety by collision

Spud pole
- Docking
Spudpaal

Een spudpaal is een paal of dikwandige buis die bij werkschepen gebruikt wordt om op de werkplek stevig verankerd stil te kunnen liggen. De palen, meestal één op het voorschip en één op het achterschip steken als masten boven het dek uit en kunnen op de werkplek door het dek (soms in vrije val) naar beneden gelaten worden, zodat het schip stevig vast komt te liggen. De spudpalen zijn ontworpen in samenwerking met TNO en DSM en kunnen ook op bestaande schepen vanaf 10 meter worden ingebouwd. Bovendeks zijn ze onzichtbaar en benedendeks worden ze netjes weggewerkt in een kast of ombouw.
Construction - Tribune
Construction - Roof / skin

Skin
- wind free area
- construction to span big gap

Roof
- protection against the rain
Construction - big span
Construction – big span
Routing – entrance stadium
Relation with water
Relation with water
Relation with water
Relation with water
Routing – Inside stadium
Routing – to V.I.P. box
Concept - V.I.P. box
Concept – V.I.P. box
Routing – view from V.I.P. box
Section – V.I.P. box
Floorplan – V.I.P. box

![Floorplan of V.I.P. box]
Detail – V.I.P. box
Routing – V.I.P. box
Experience – inside
Routing – Inside stadium
View – Outside facade
View – Inside facade
Detail – Facade
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Model
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