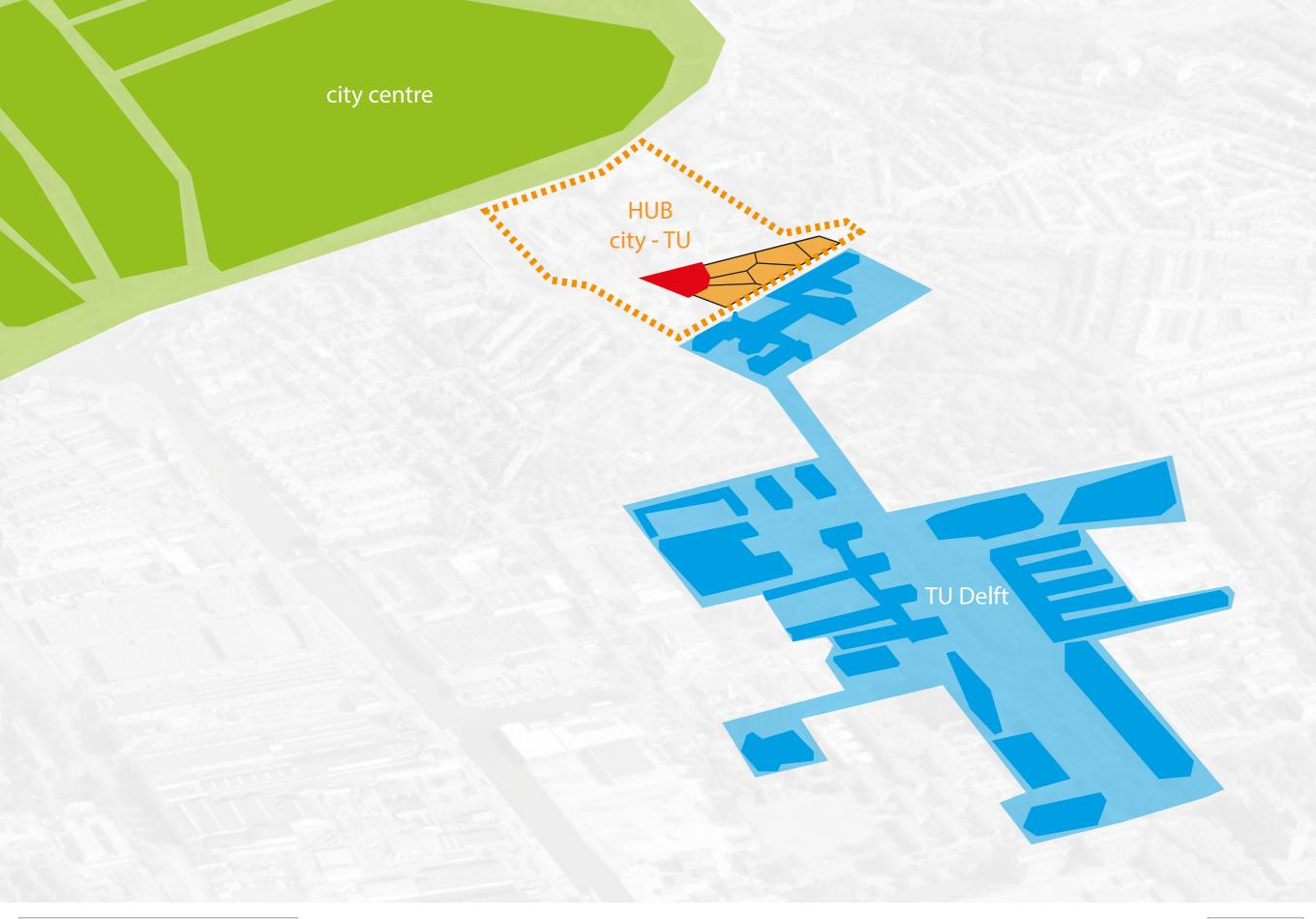
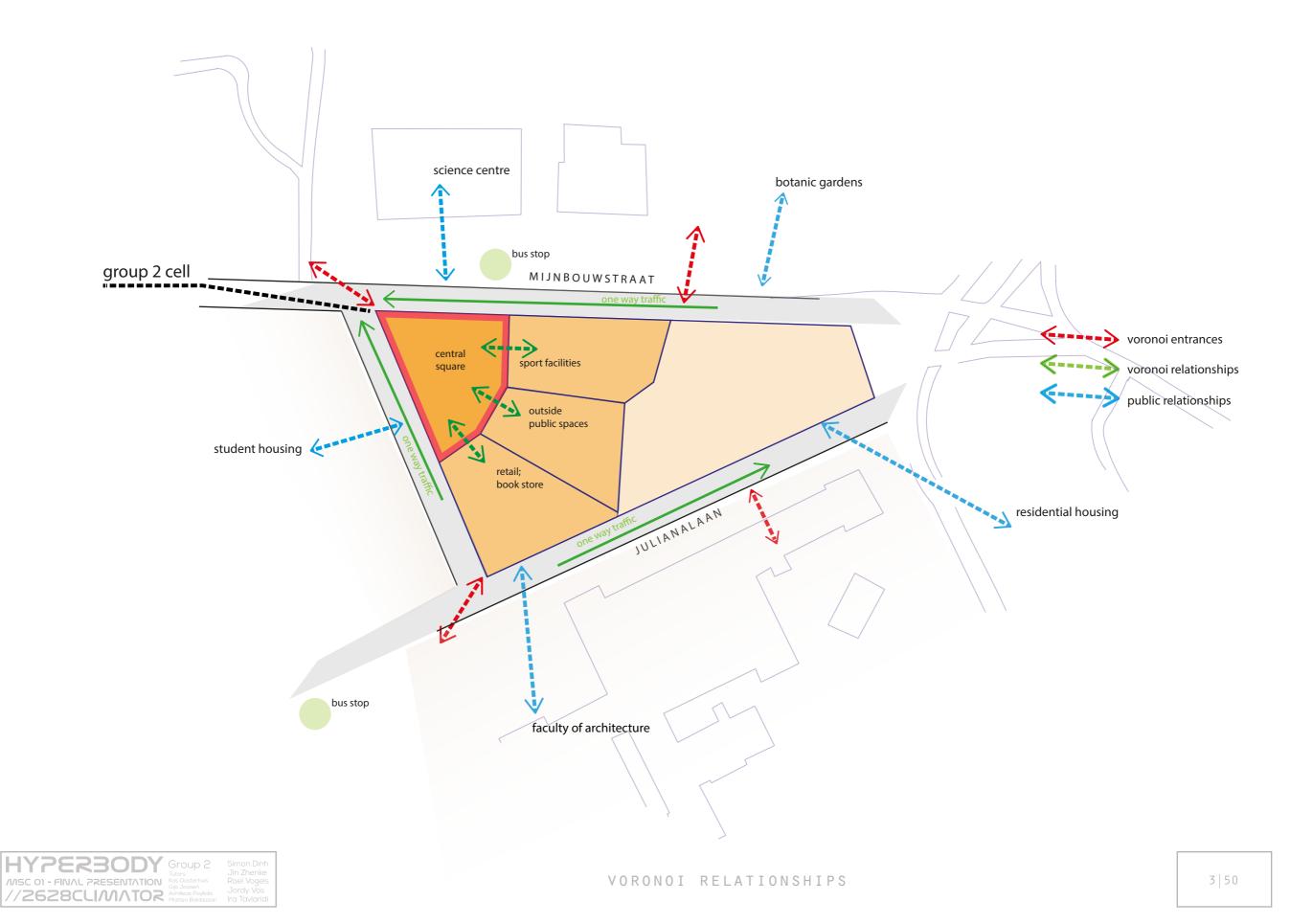
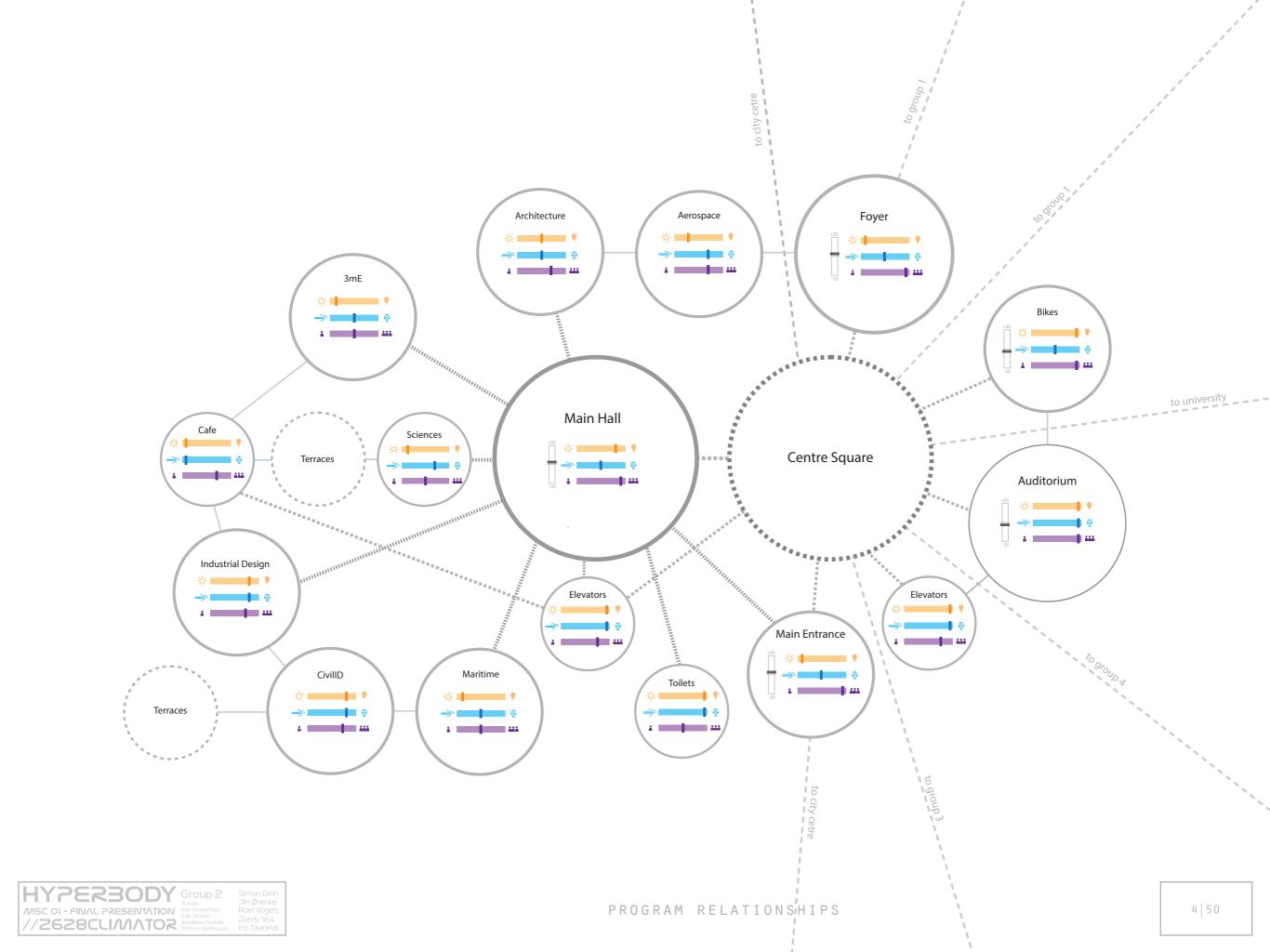
Skintegration

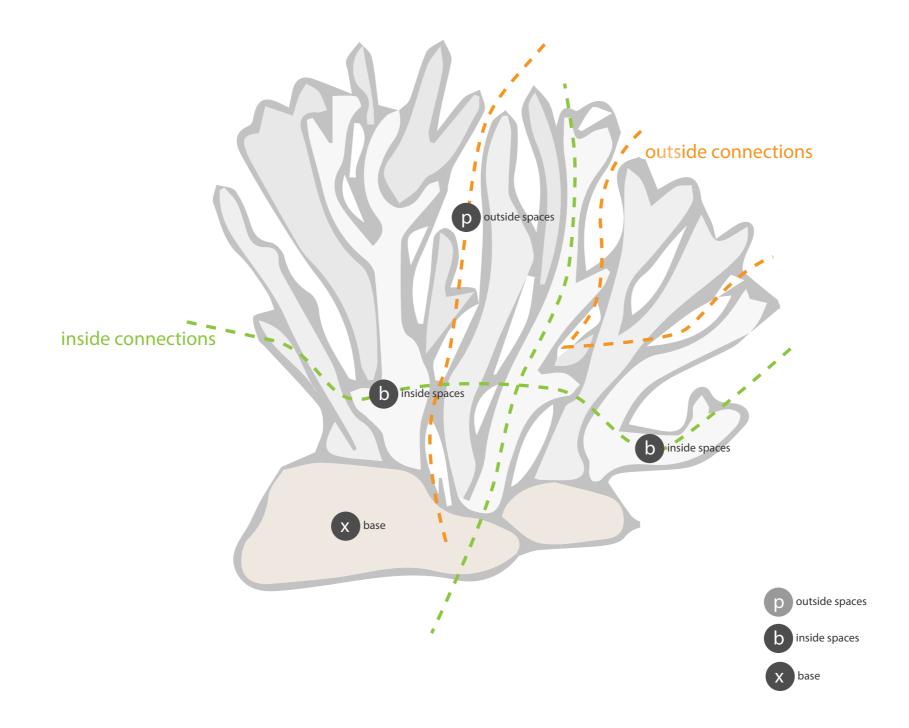
Simon Dinh - Zhenke Jin - Ira Tavlaridi - Roel Vogels- Jordy Vos TU Delft Hyperbody Msc1 - Final Review - Group 2 January 2014







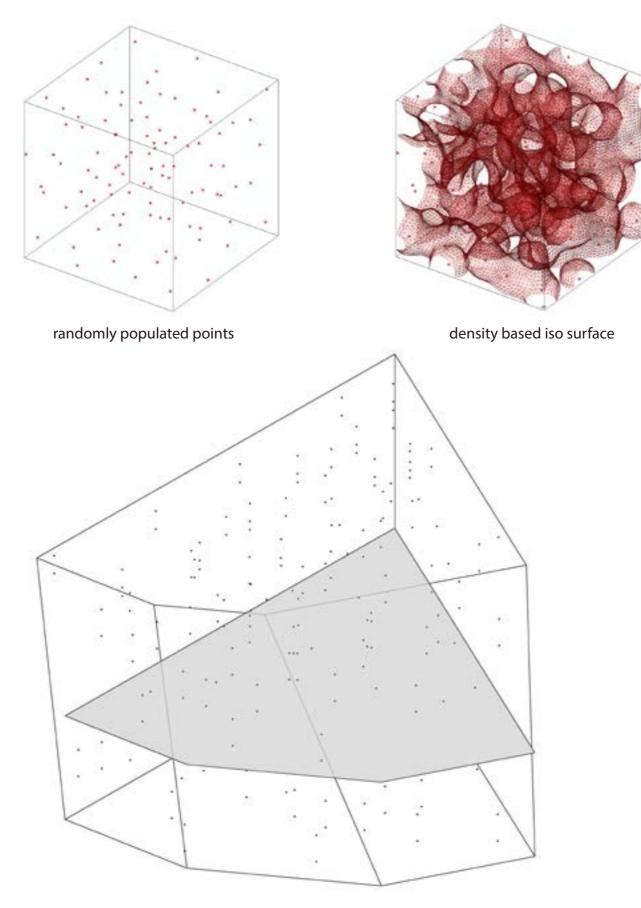






Open space Build up space inside b inside spaces outside spaces р Aditorium Cafe terraces Foyer Entrances to Voronoi Main-Epo Gardens Bicycle parking **Congregation Space** Exhibitions Elevator shaft Toilets





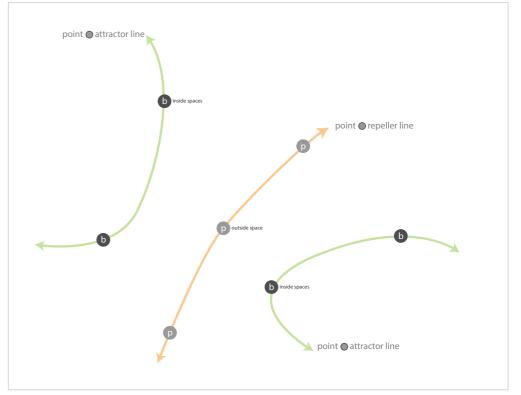
point cloud

HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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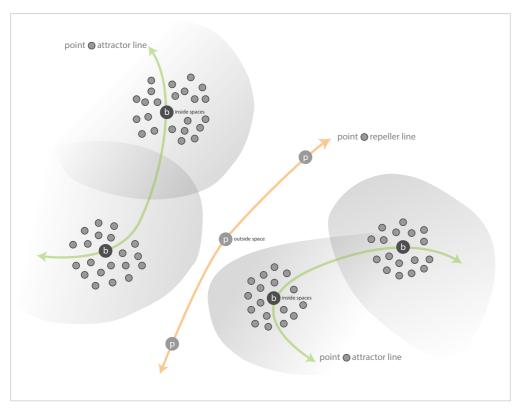
STARTING GEOMETRY



repeller and attractor lines, represent outside and build up space



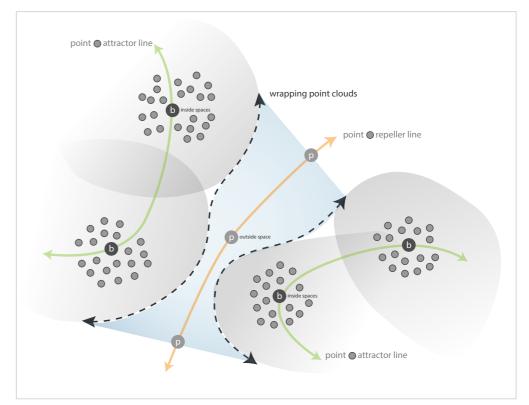
volume centre points are added as extra attractors

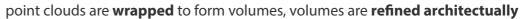


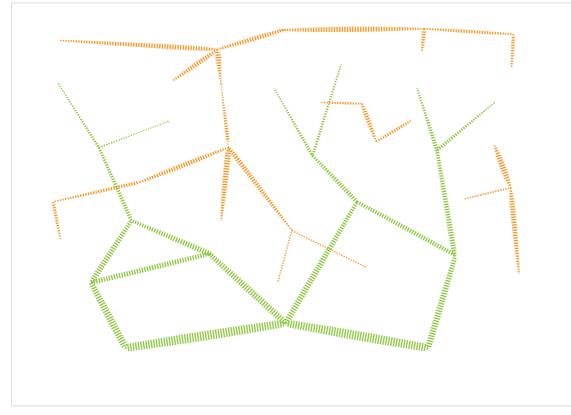
points will cluster around volume centre points and form point clouds

HYPERBODY Group 2

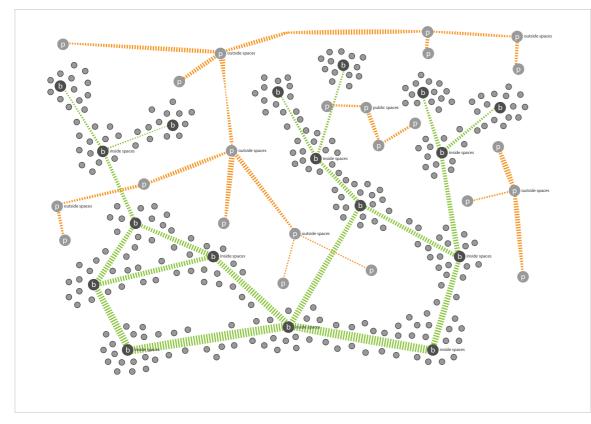
MSC OI - FINAL PRESENTATION



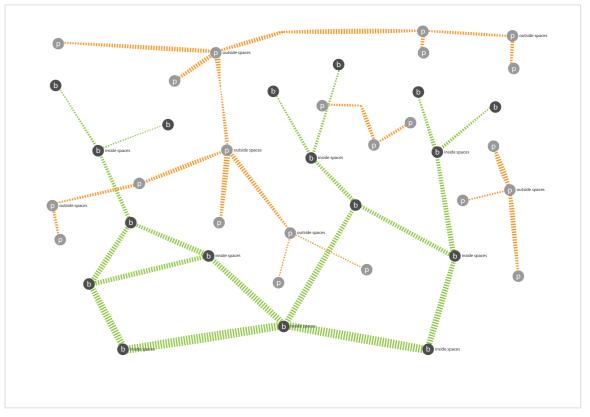




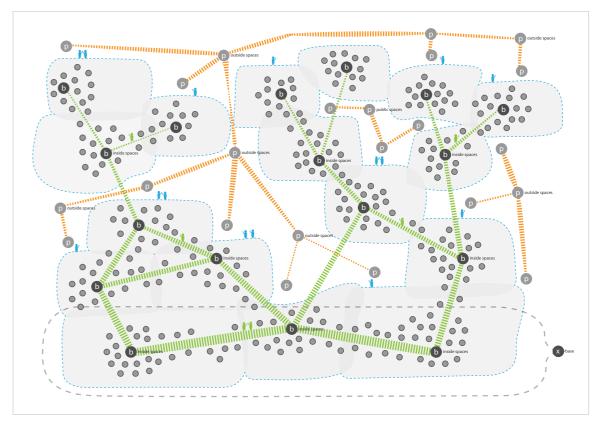
repeller and attractor lines, represent outside and build up space



points will cluster around attractor lines and volume centre points and form point clouds

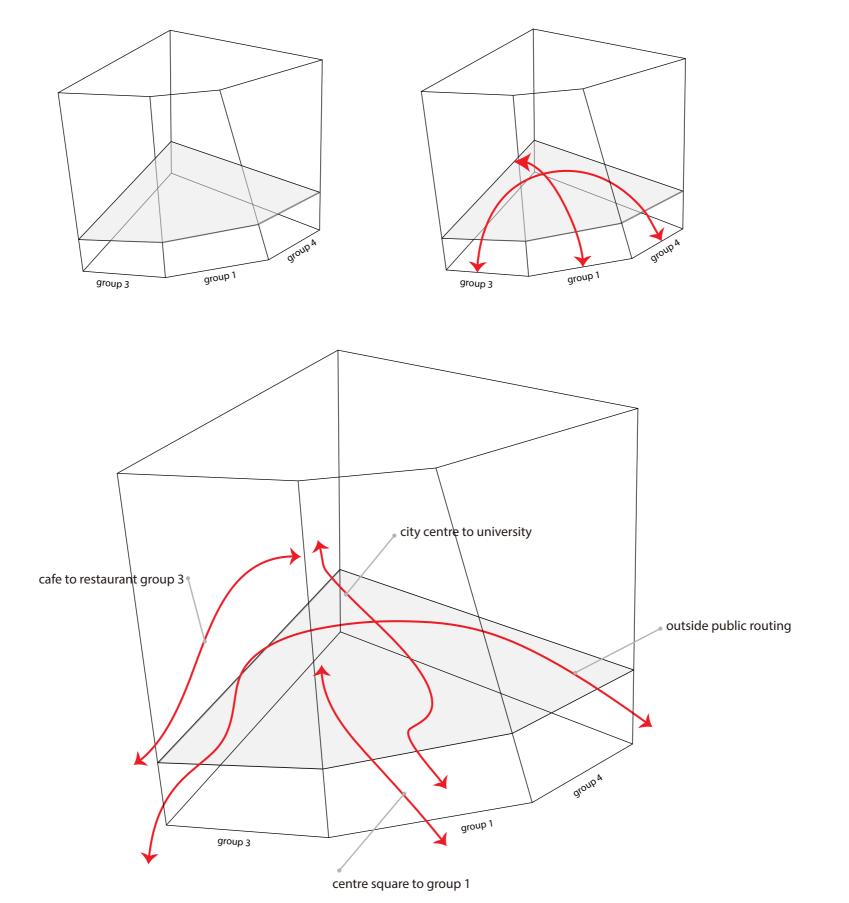


volume centre points are added as extra attractors

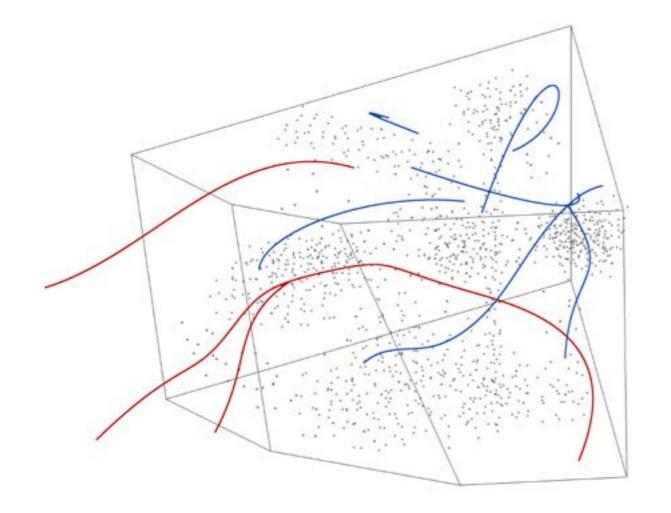


point clouds are wrapped to form volumes, volumes are refined architectually

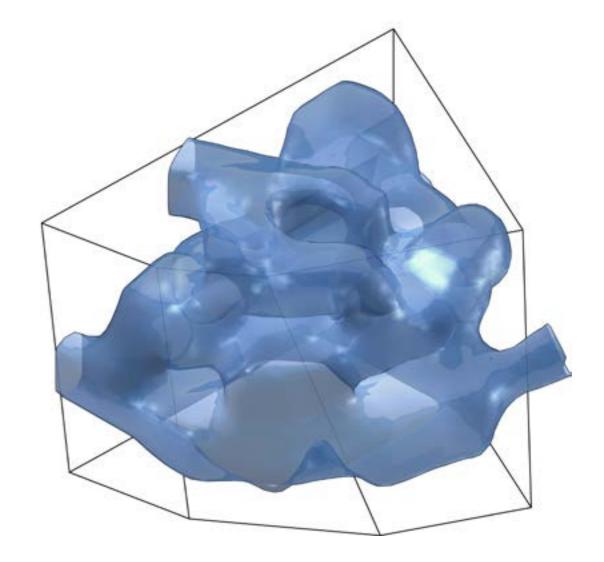
	Group 2 Tutors:	Simon Dinh Jin Zhenke
MSC 01 - FINAL PRESENTATION	Kas Oosterhuis Gijs Joosen	Roel Vogels
//2628CLIMATOR	Achilleas Psyllidis Matteo Baldassari	Jordy Vos Ira Tavlaridi



HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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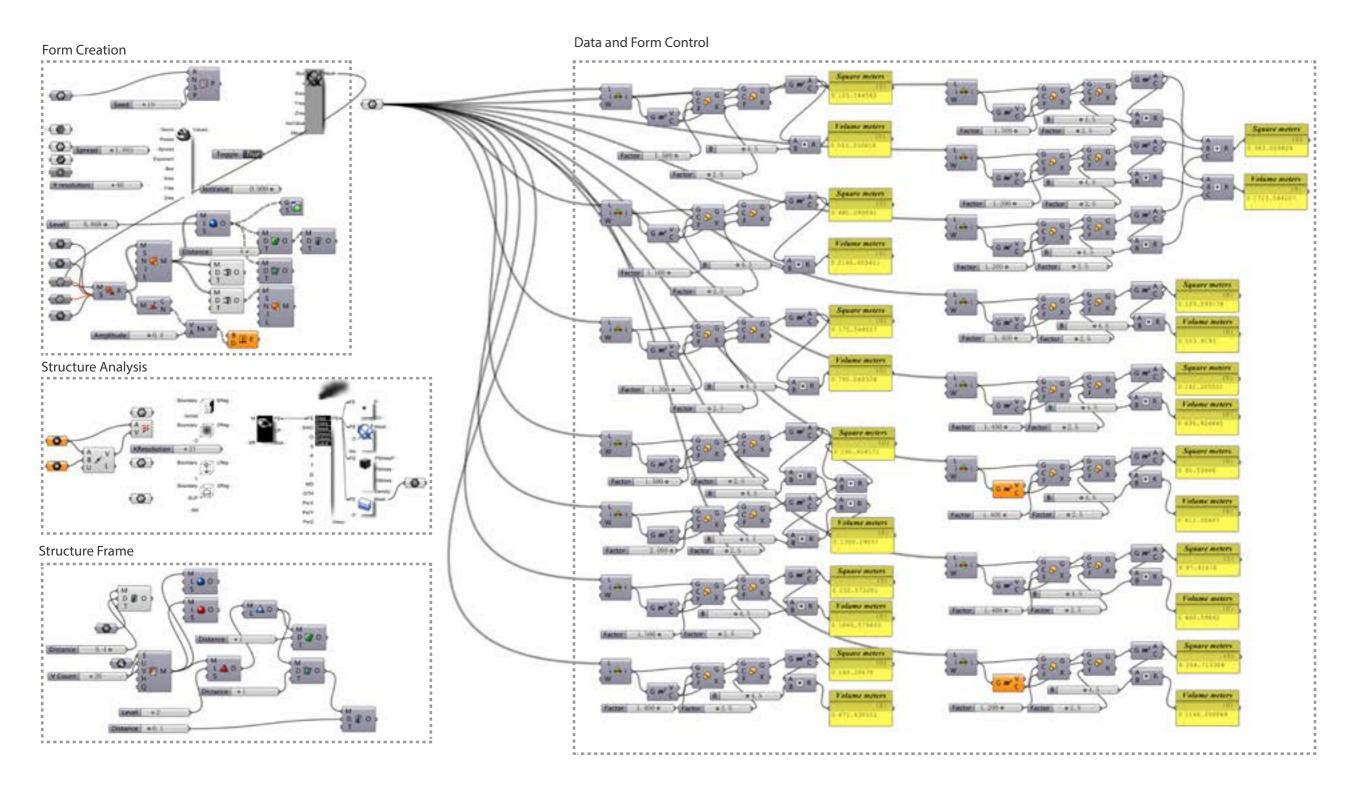


Routes Affect Points' Dense Region

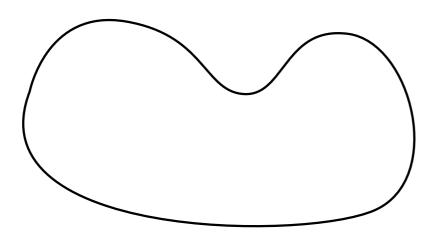


Wrapping Result Based on Points Region

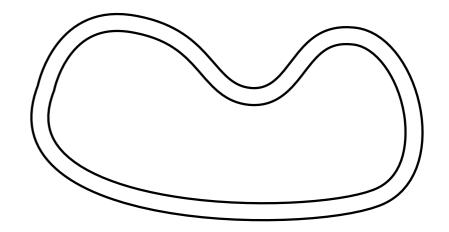
HYPERBODY MSC 01 - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleos Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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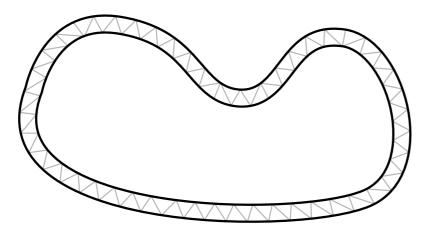




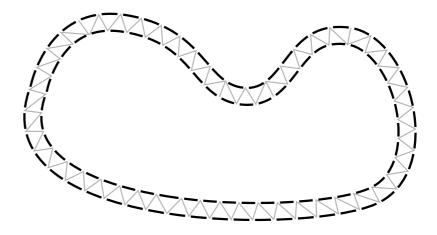
skin created by wrapping point clouds



offset of skin to create barrier between inside & outside

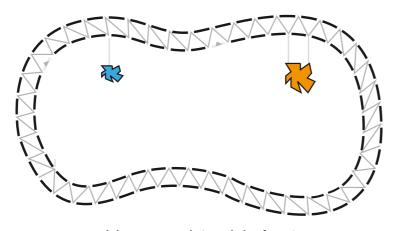


barrier is filled with **space frame construction**

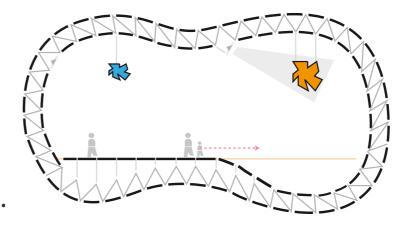


panels between space frame nodes create flexible skin system

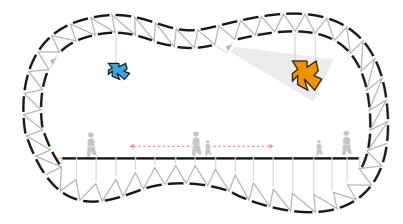




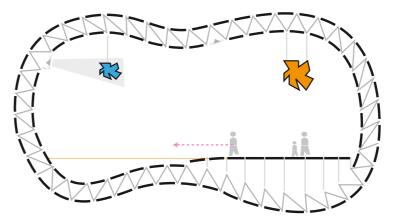
no visitors - panels in original positon



entering visitors - Panels move to form horizontal floor

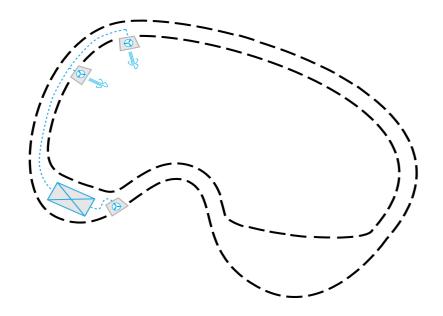


visitors - panels in horizontal position

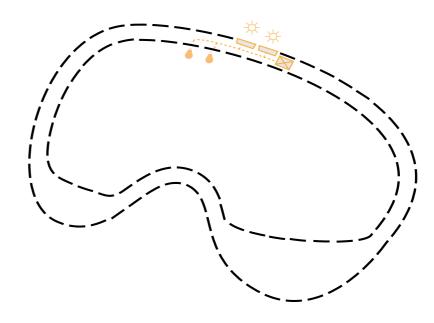


leaving visitors - panels move back to original position

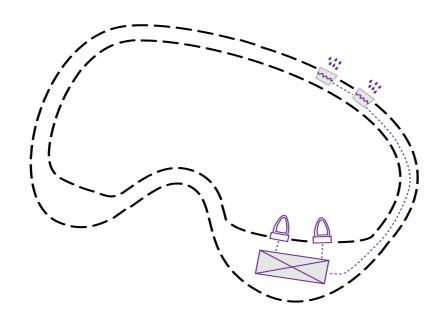




fresh air is collected, filtered, and blown into the volumes for ventilation



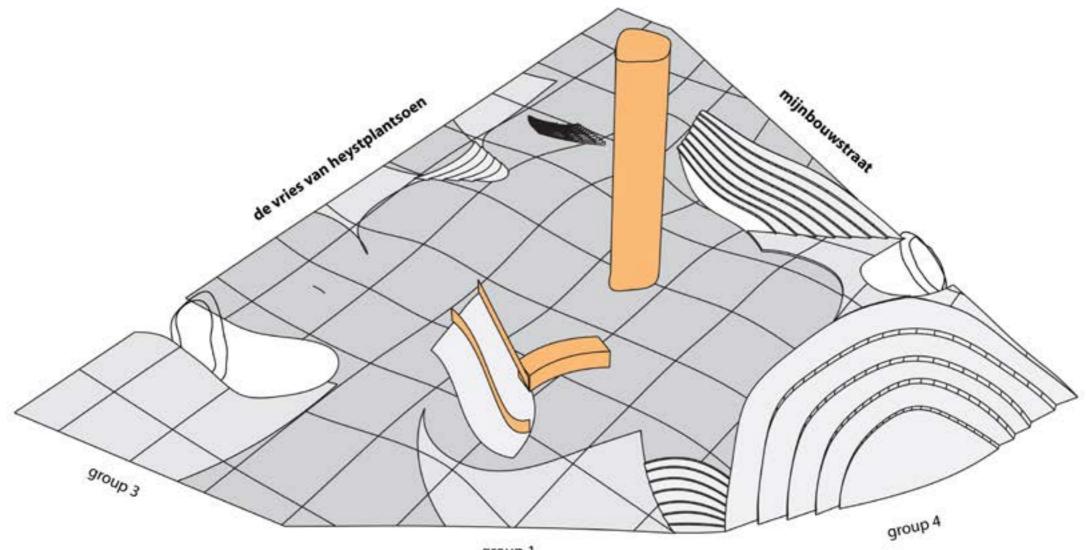
solar panels collect energy for lighting and moving panels

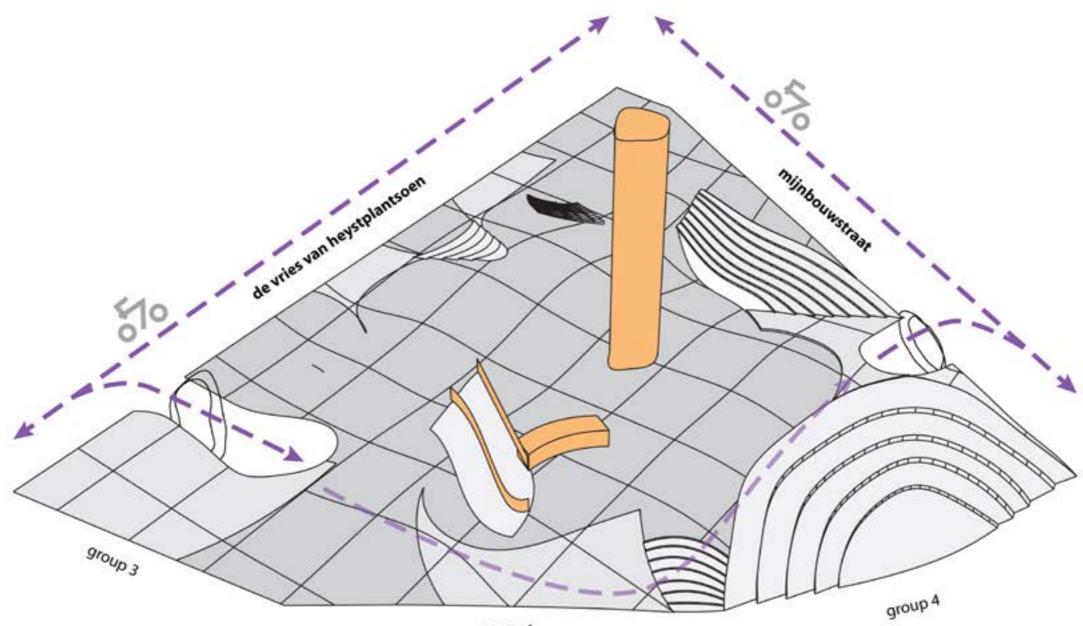


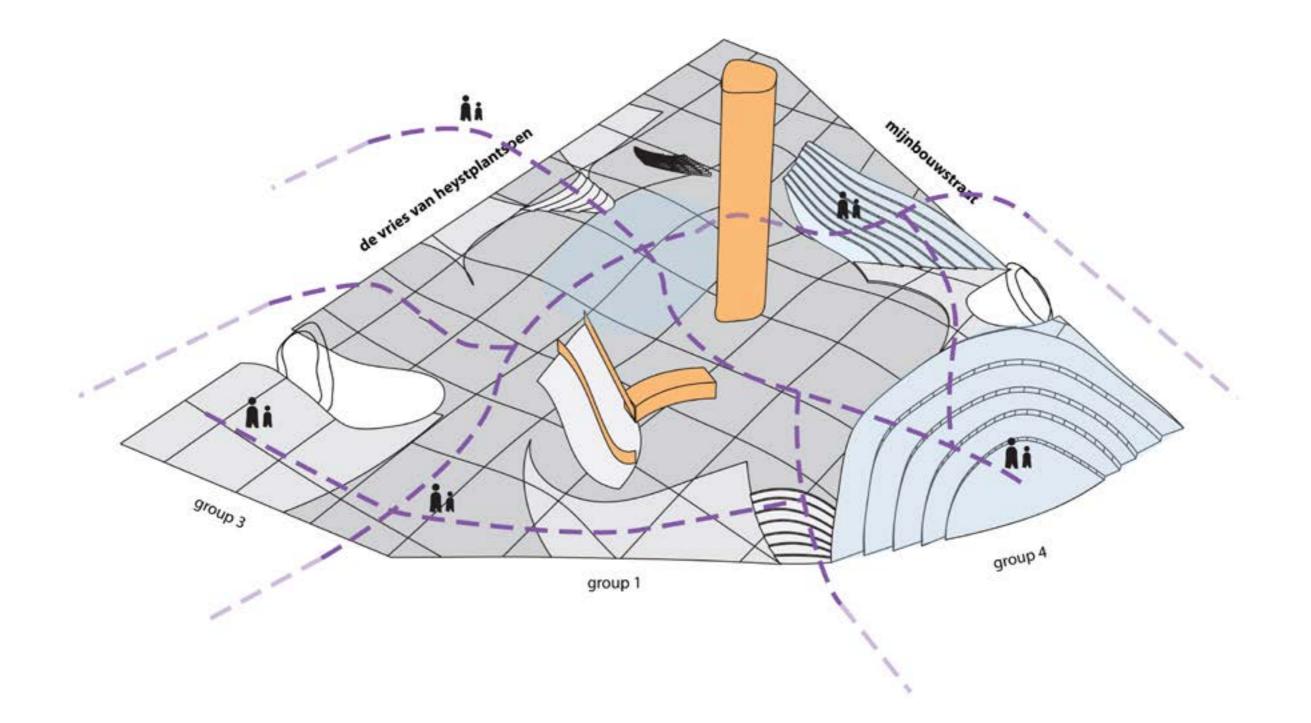
water is collected for toilets & wash stands

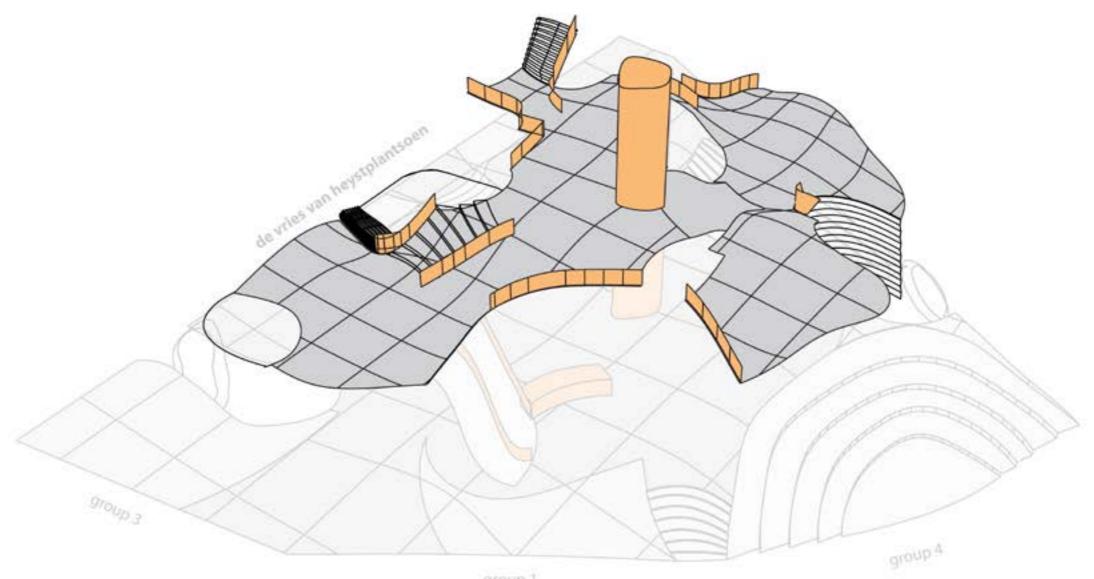
skin serves as construction, interactivity & climatic systems

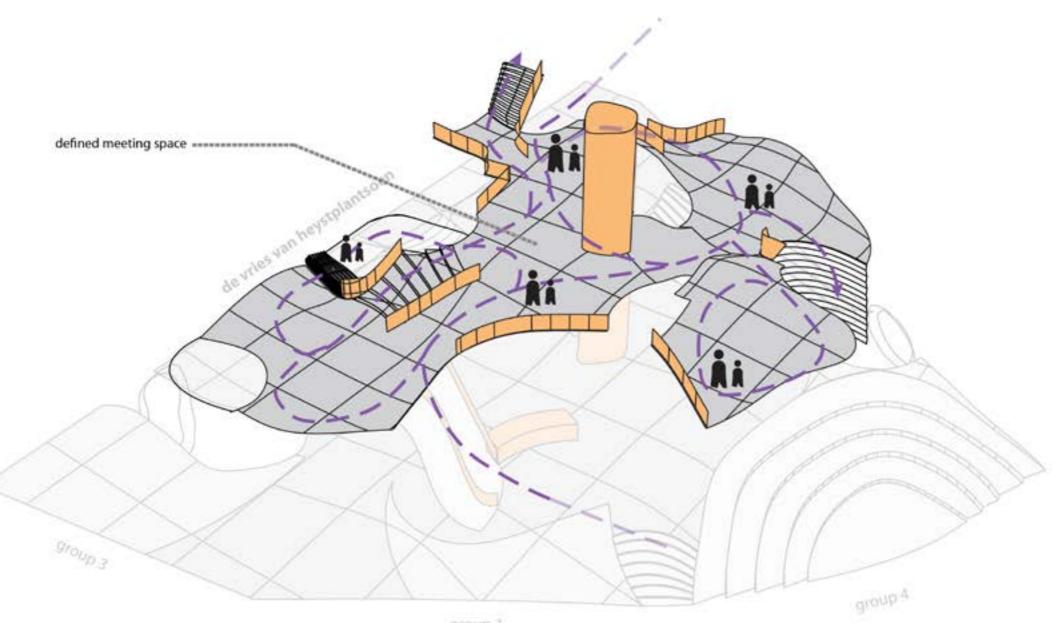




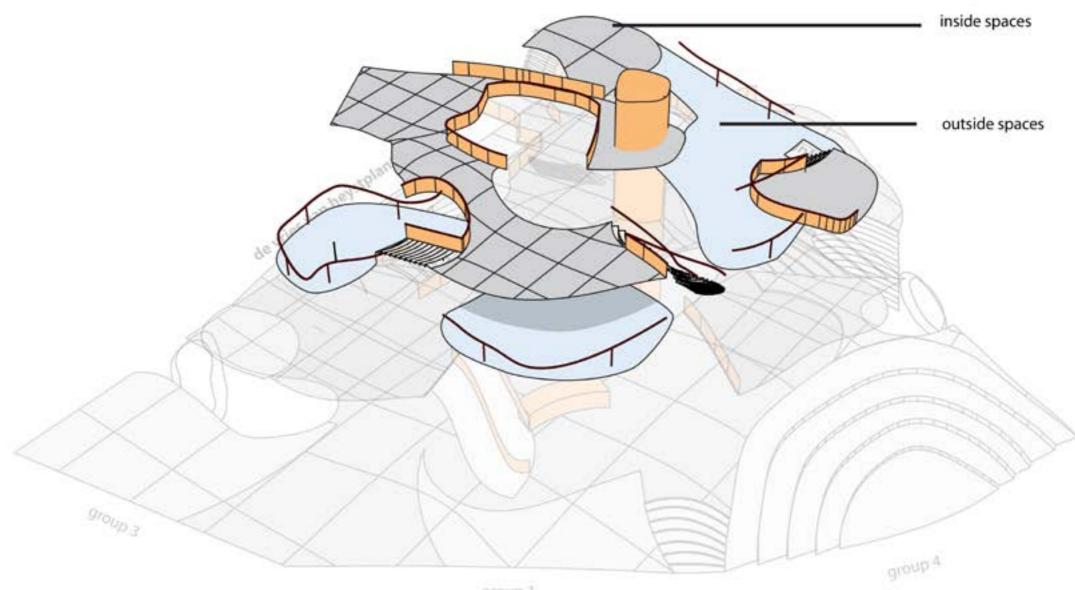


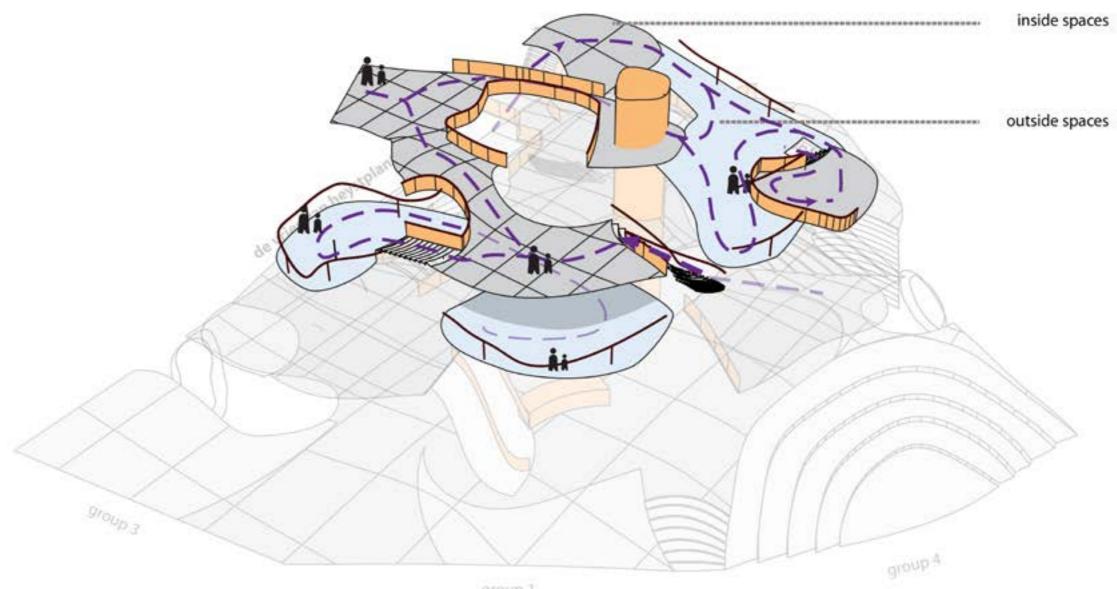






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MSC 01 - FINAL PRESENTATION //2628CLIMATOR	Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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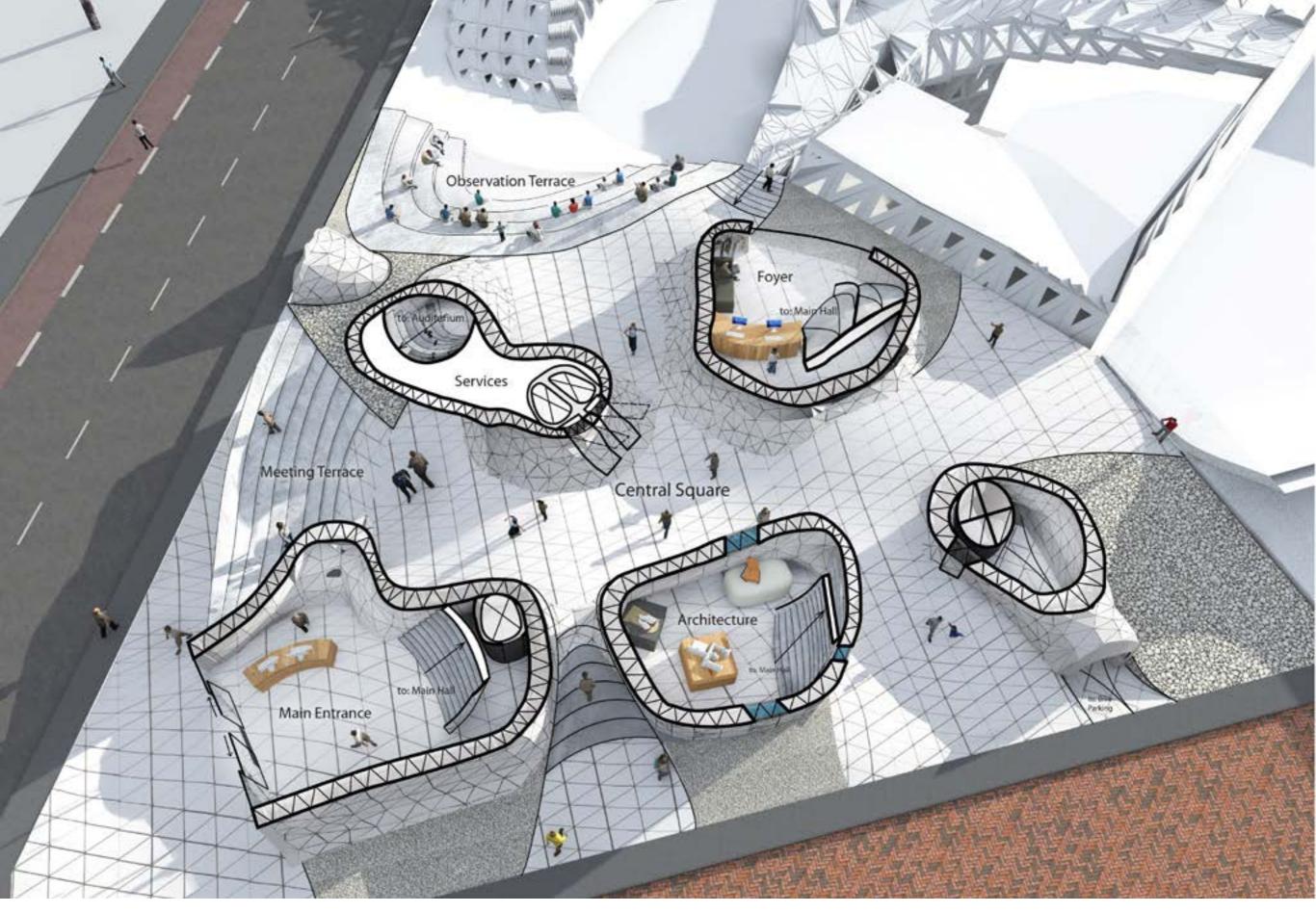




ELEVATION MIJNBOUWSTRAAT





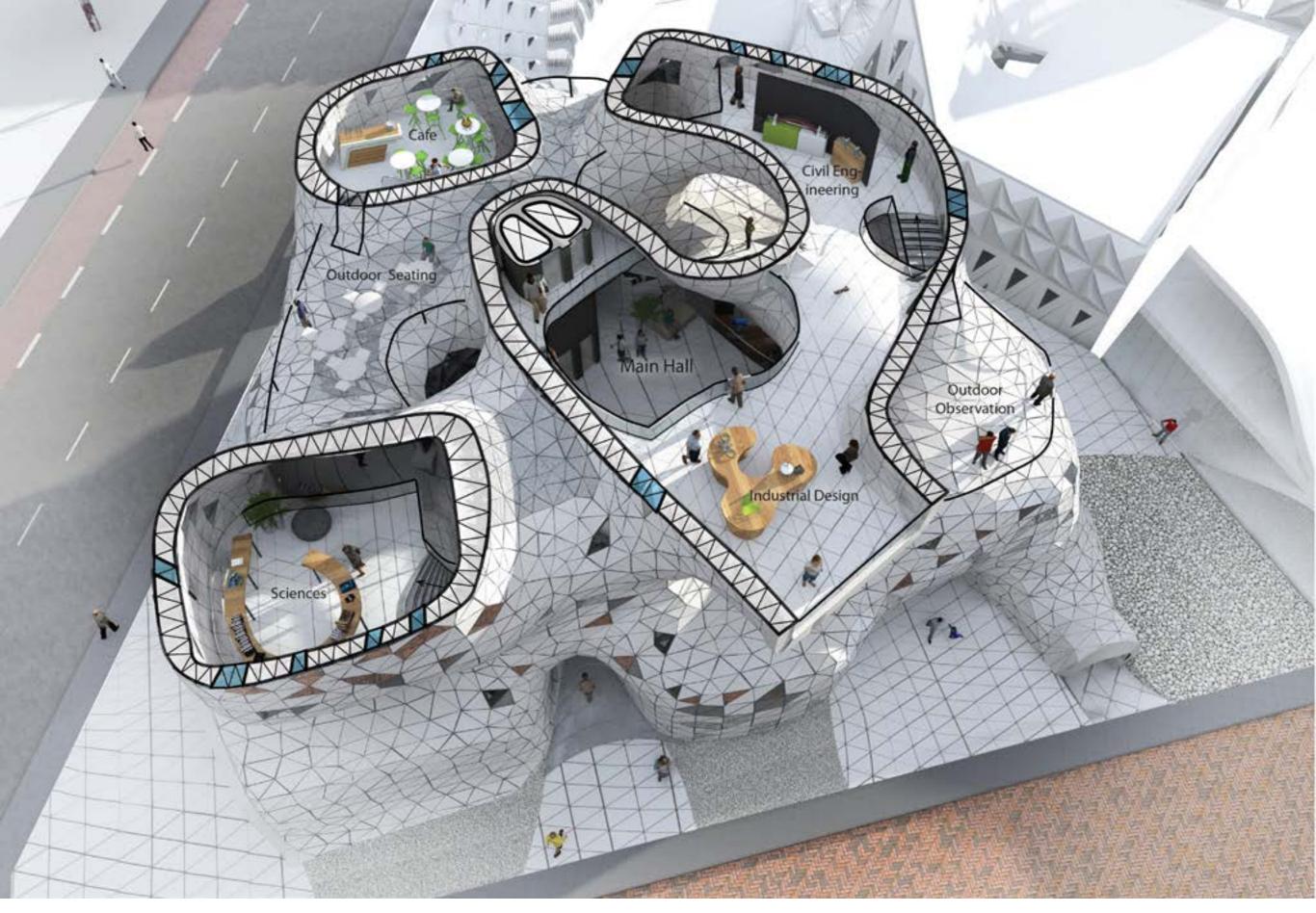


HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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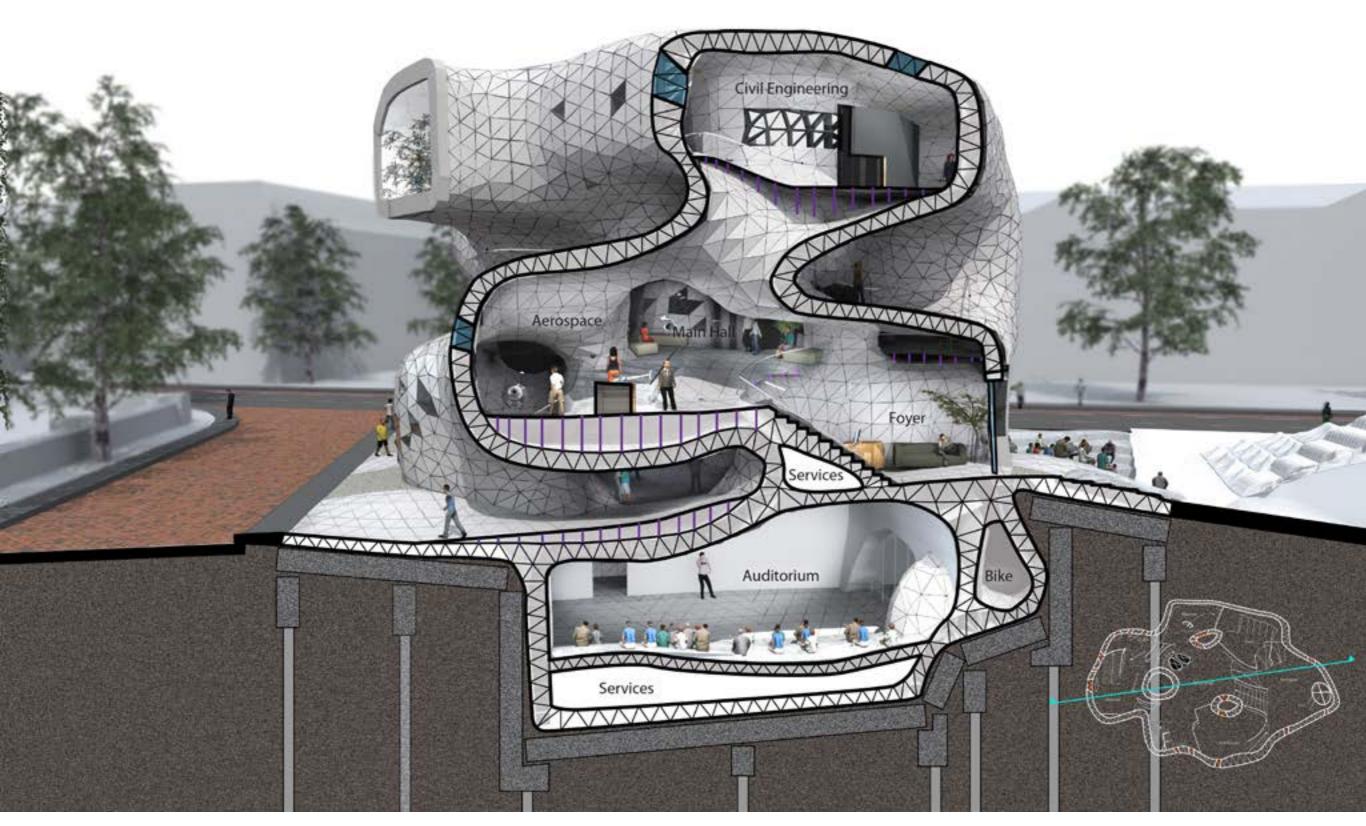




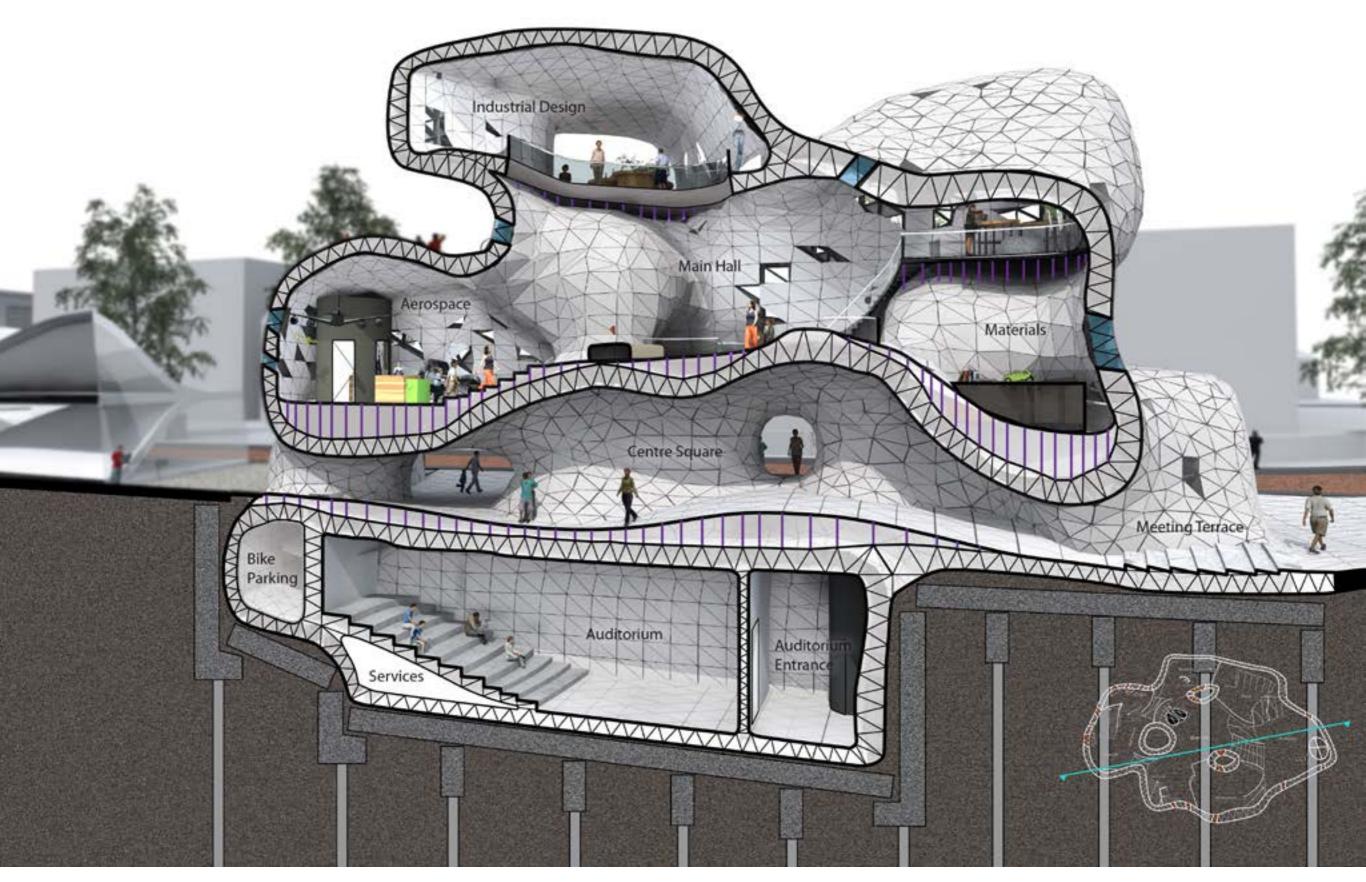
HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Tutors: Kas Oosterhuis Gijs Joosen	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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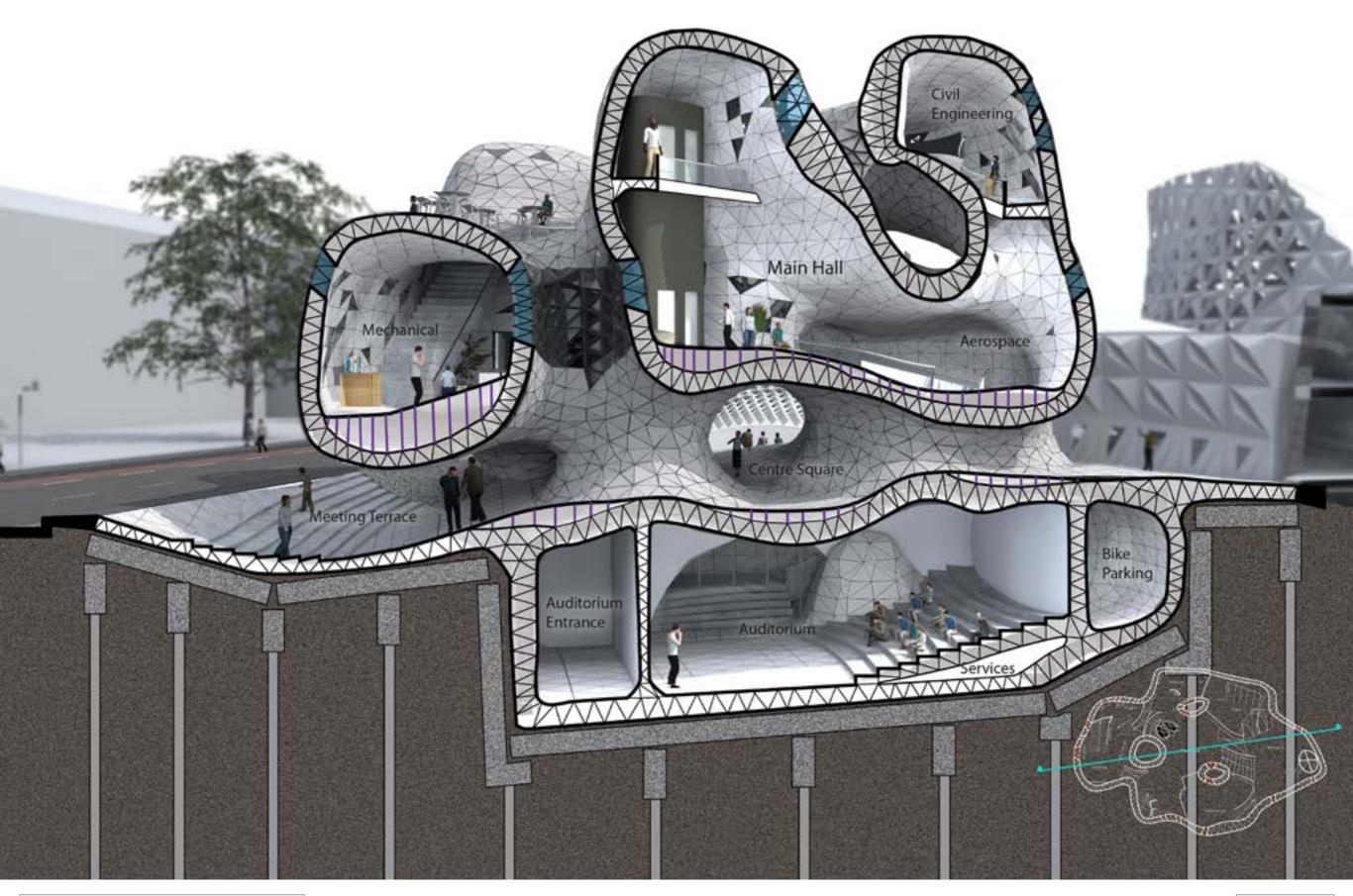


HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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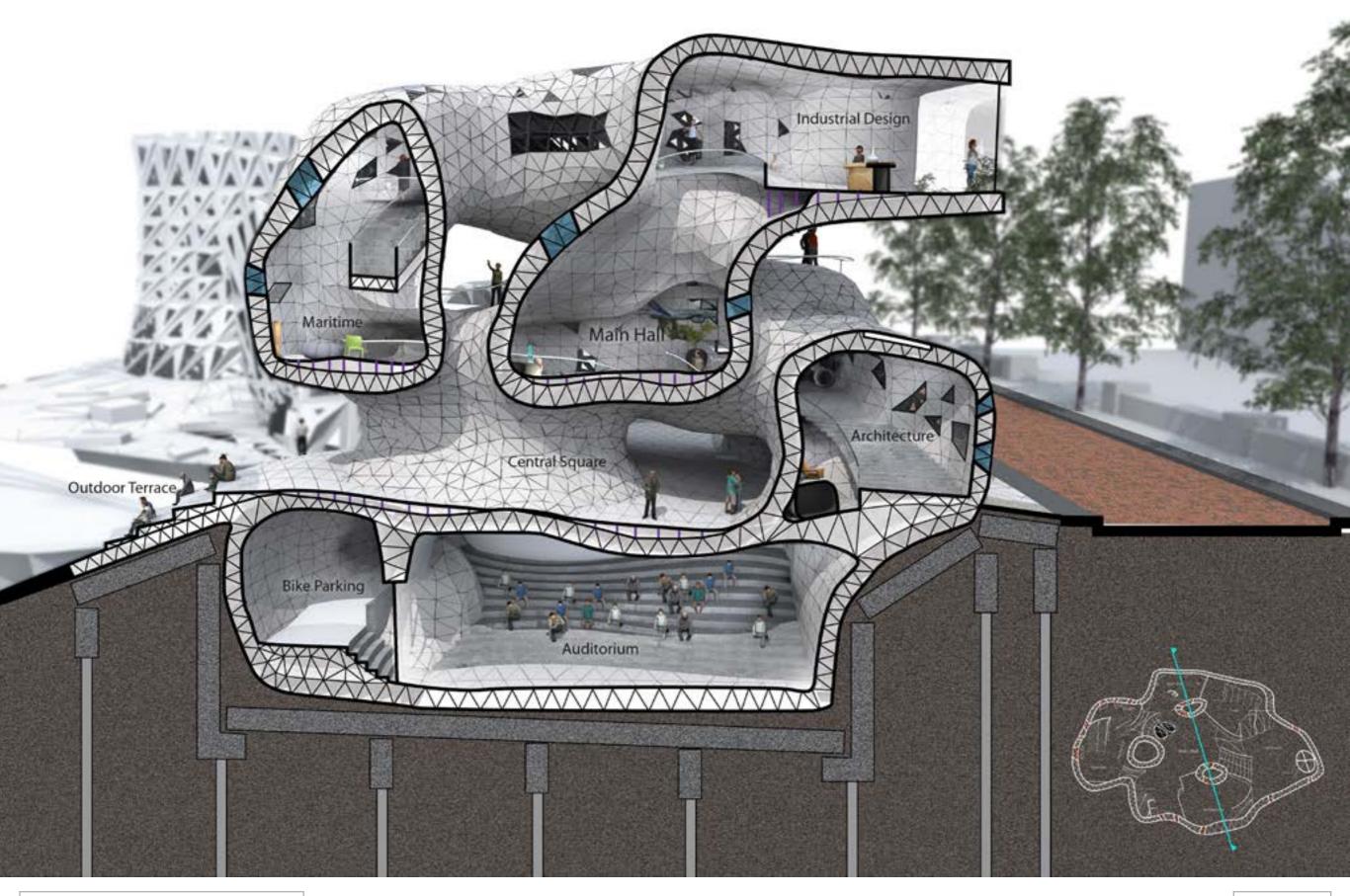


HYPERBODY	Group 2 Tutors:	Simon Dinh Jin Zhenke
MSC 01 - FINAL PRESENTATION	Kas Oosterhuis Giis Joosen	Roel Vogels
//2628CLIMATOR		Jordy Vos Ira Tavlaridi





HY7ER3ODY		Simon Dinh Jin Zhenke
MSC OI - FINAL PRESENTATION	Kas Oosterhuis Giis Joosen	Roel Vogels
//2628CLIMATOR		Jordy Vos Ira Tavlaridi



MISC OI - FINAL PRESENTATION	Kas Oosterhuis Gijs Joosen	Simon Dinh Jin Zhenke Roel Vogels
//2628CLIMATOR	Achilleas Psyllidis Matteo Baldassari	Jordy Vos Ira Tavlaridi



PV components

Rainwater capturing - components





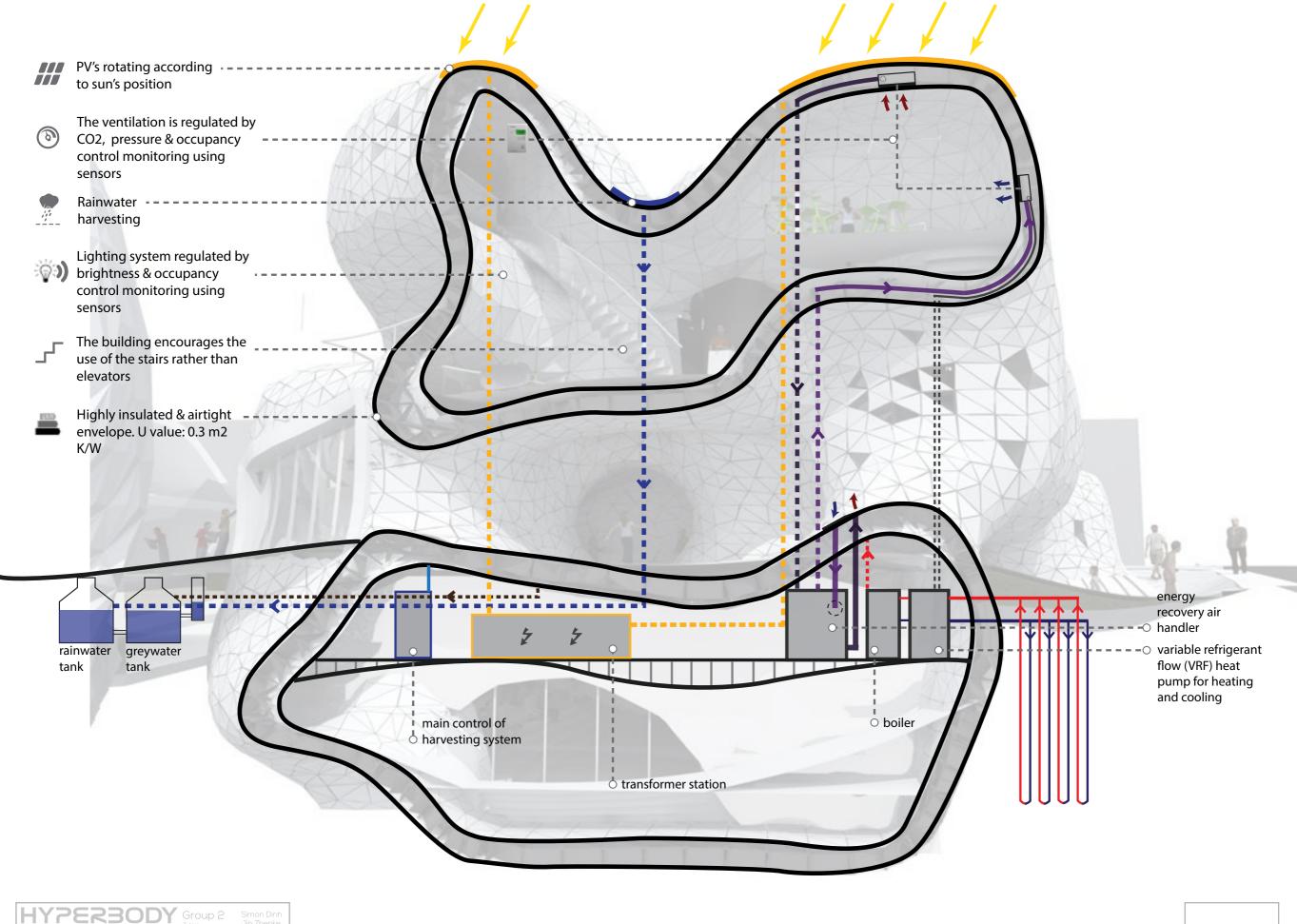
HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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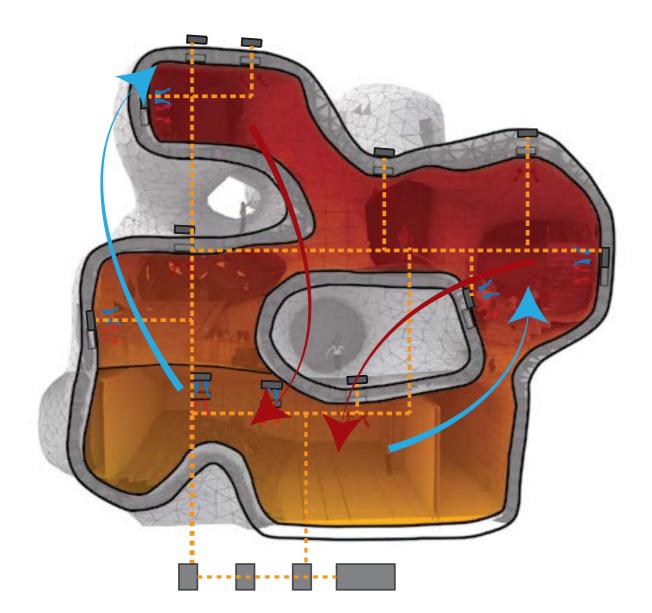
MISC OI - FINAL PRESENTATION //2628CLIMATOR	Tutors: Kas Oosterhuis Gijs Joosen	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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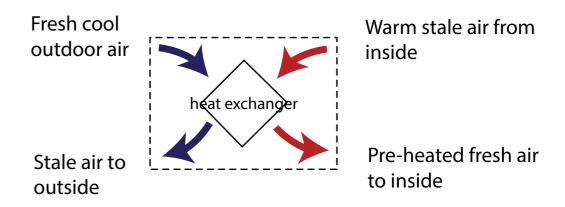
HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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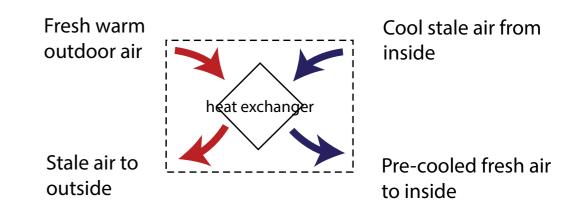
MSC OI - FINAL PRESENTATION



WINTER



SUMMER



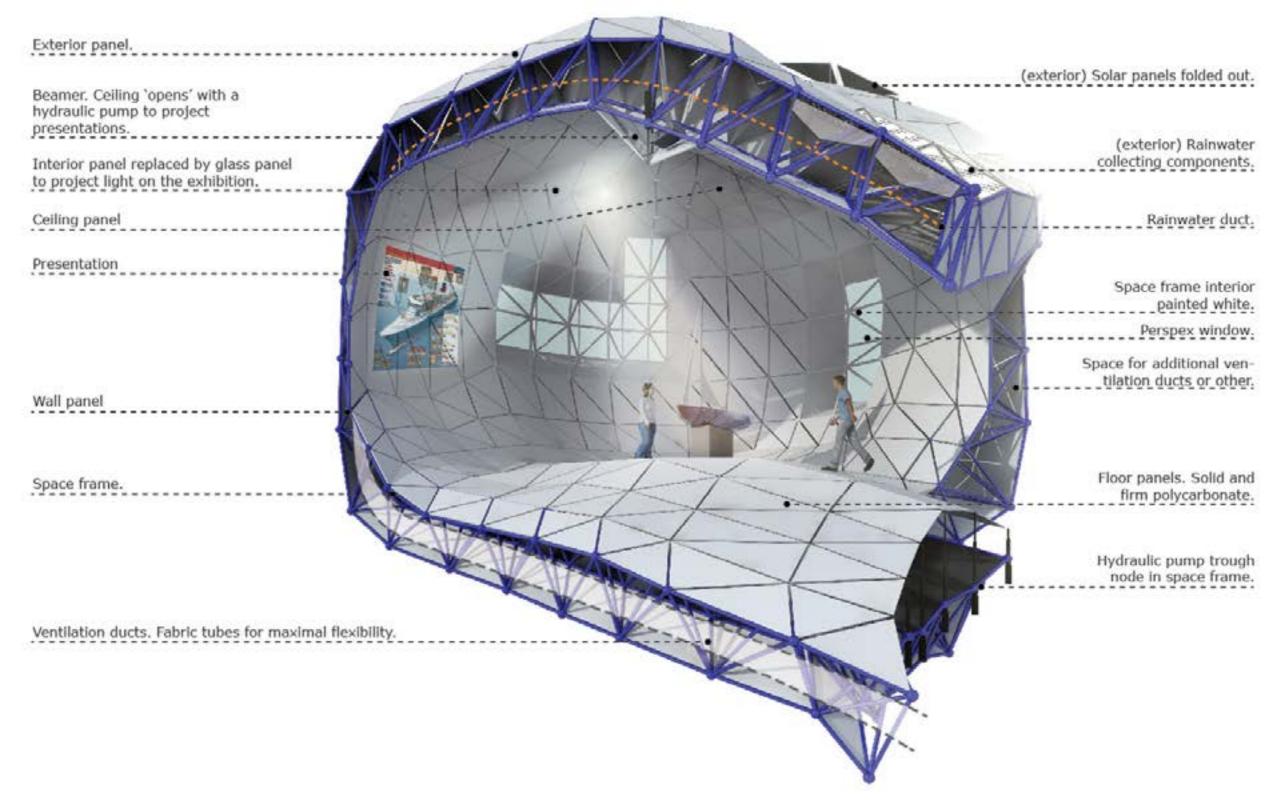
HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Group 2 Tutors: Kas Oosterhuis Gijs Joosen Achilleas Psyllidis Matteo Baldassari	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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187.000 kWh annual electricity consumption 42 kWp power of array (300m2) 37.559 kWh generated electricity per year 1.877.950 h generated light hours per year 25.165 kg CO2 avoided CO2 emissions per year 20% avoided CO2 emissions per year

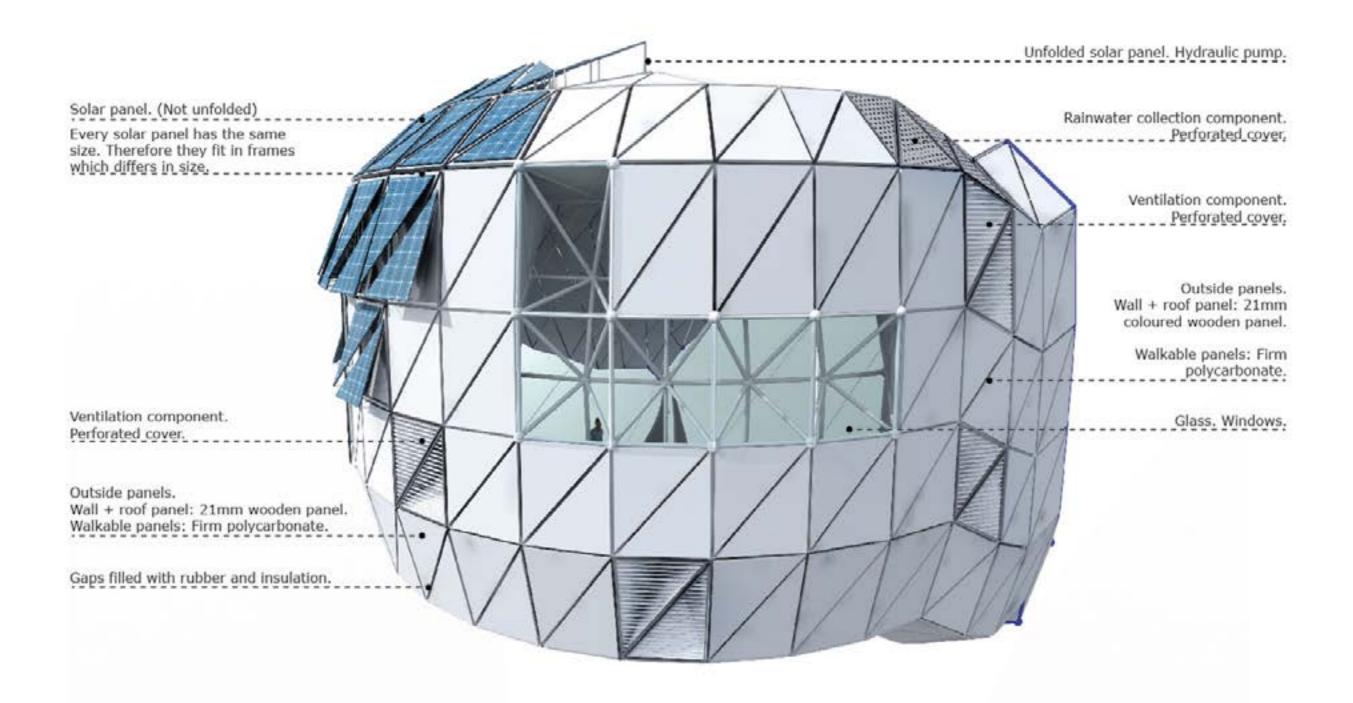


511.000 L	annual water consumption
330 m2	total area of rainwater collectors
316.200 L	annual rainwater harvest
219.000 L	annual greywater harvest
535.200 L	total water harvest
24.200 L	water annual surplus

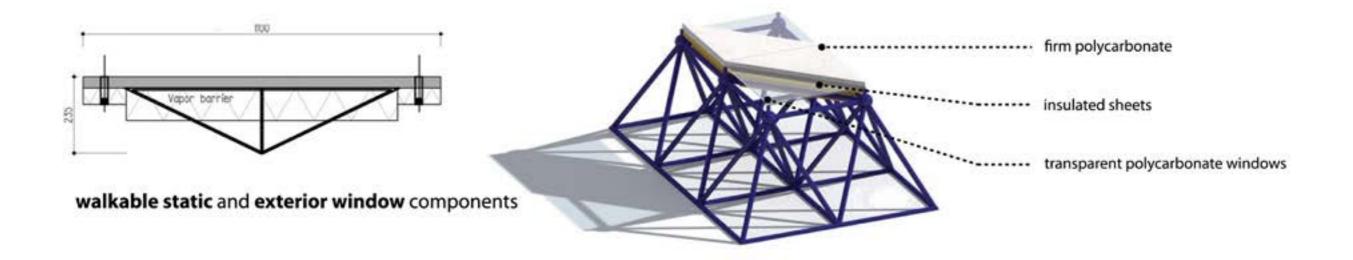


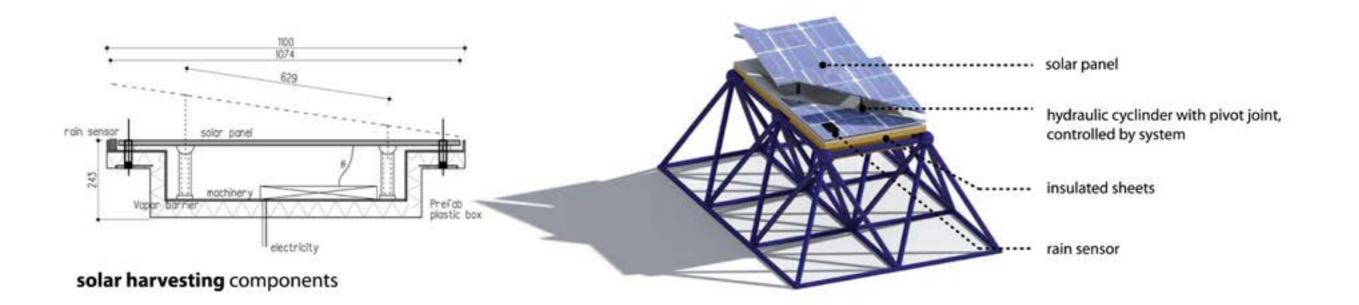


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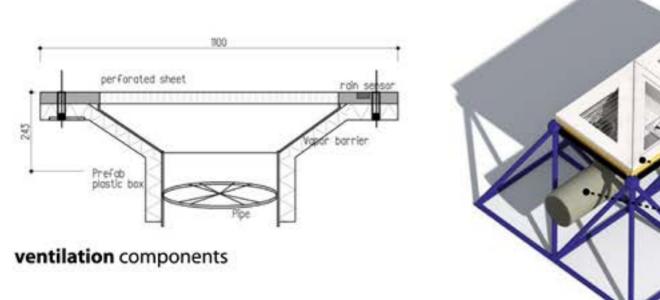


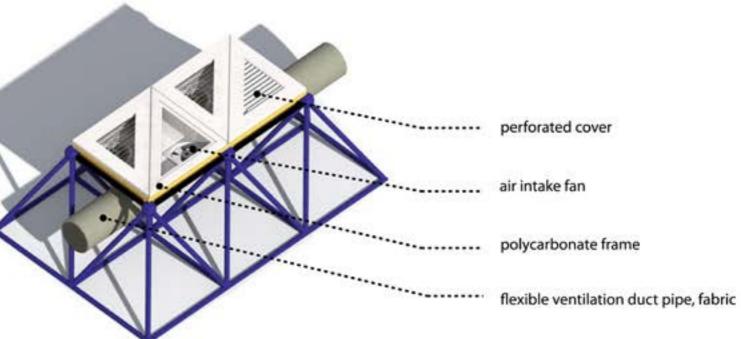


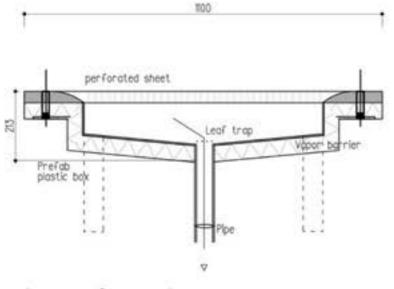




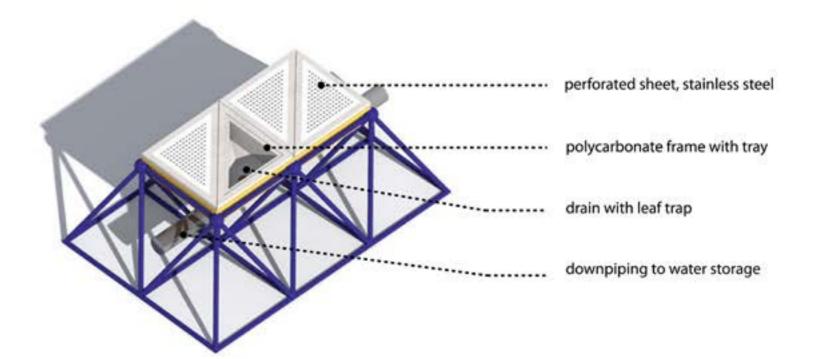




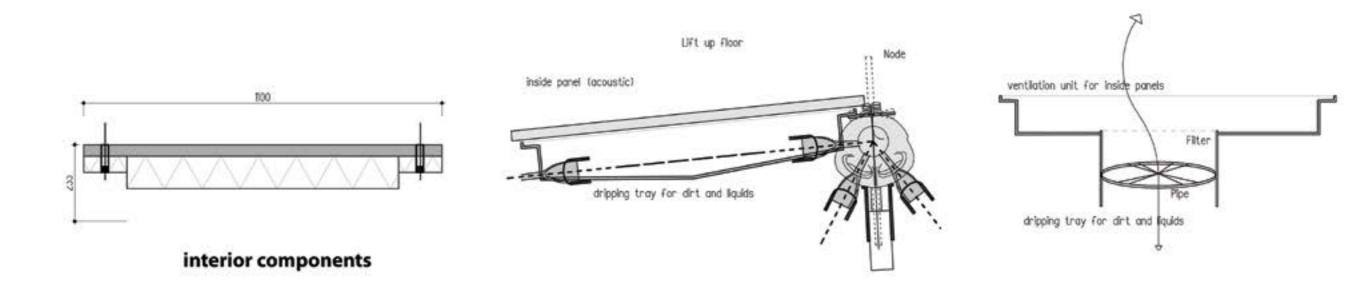


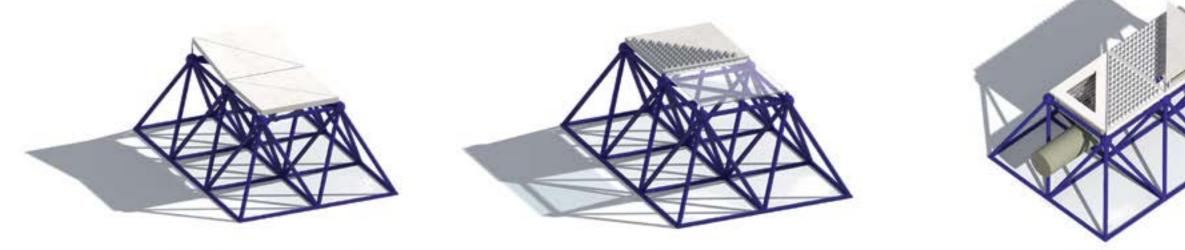


rainwater harvesting components





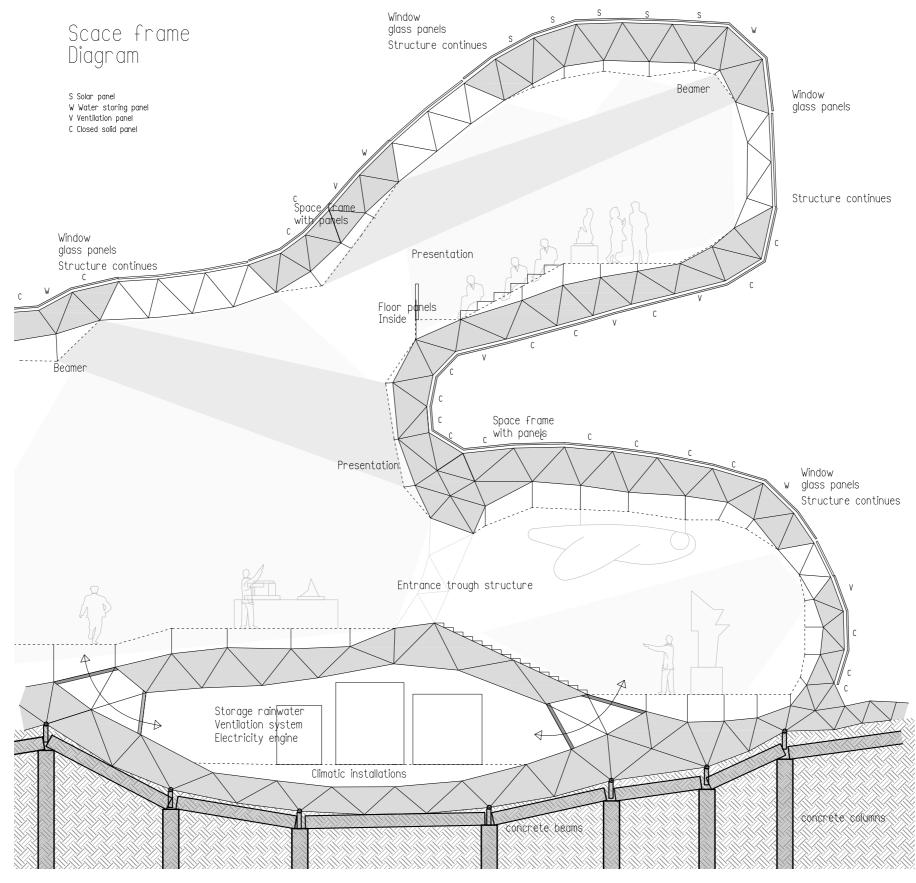




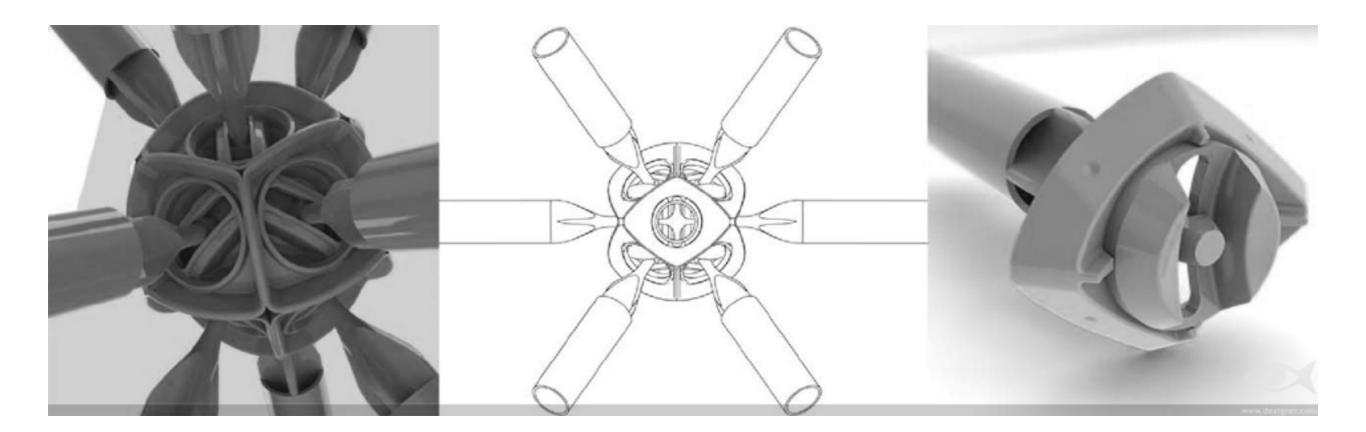
flooring components

wall components

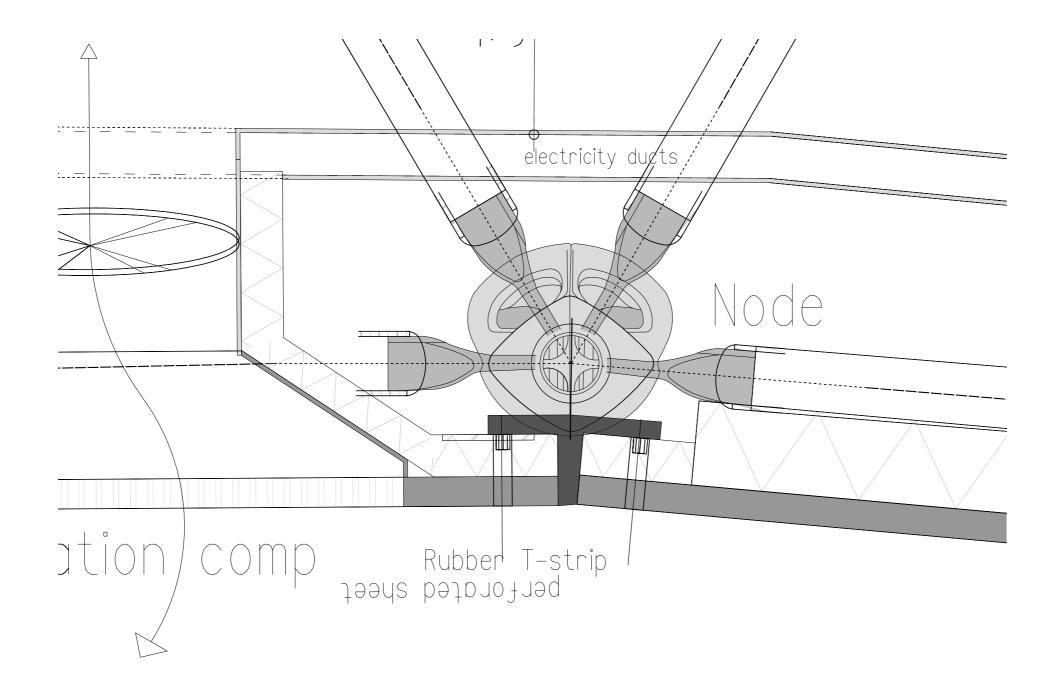
ceiling components



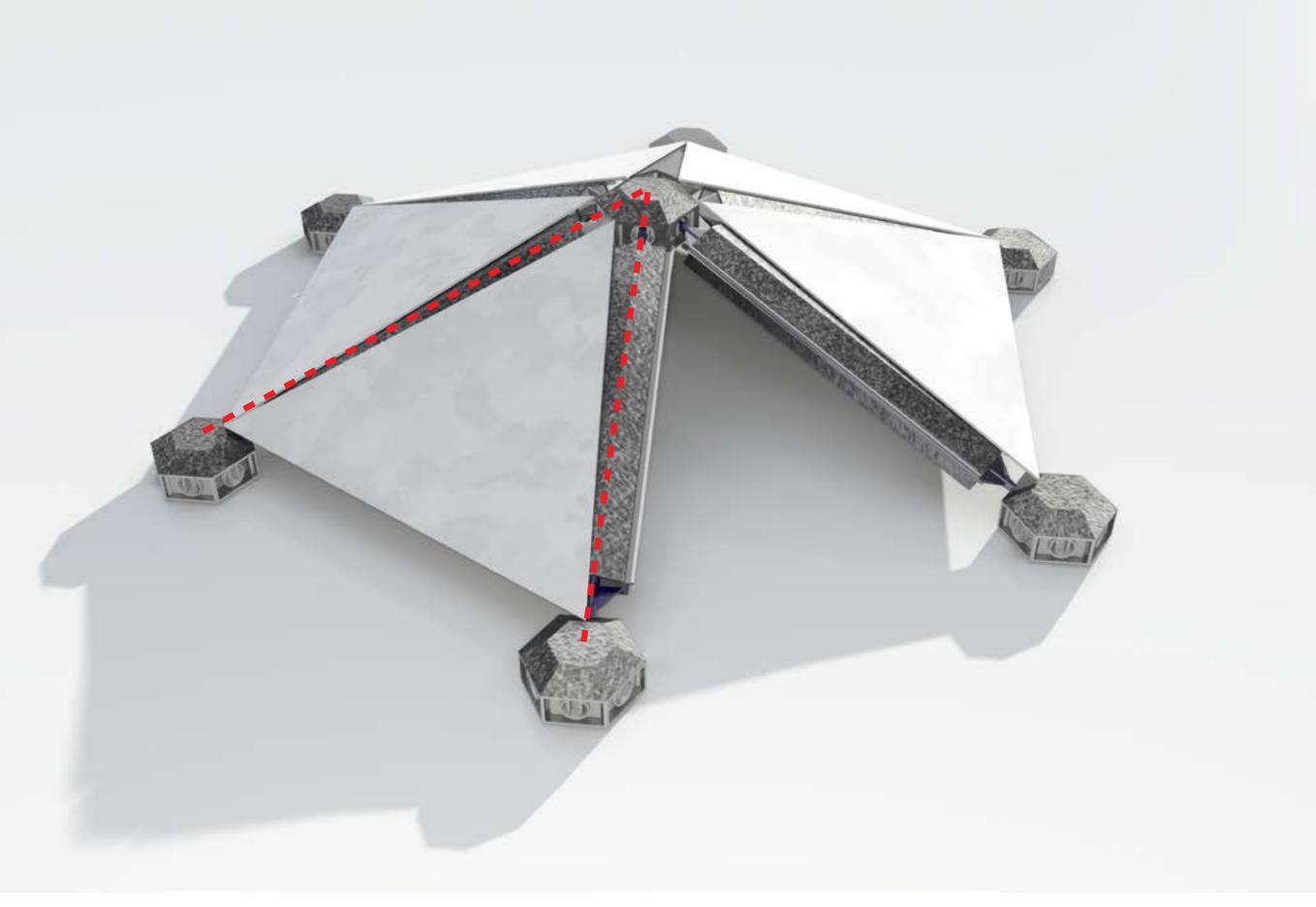




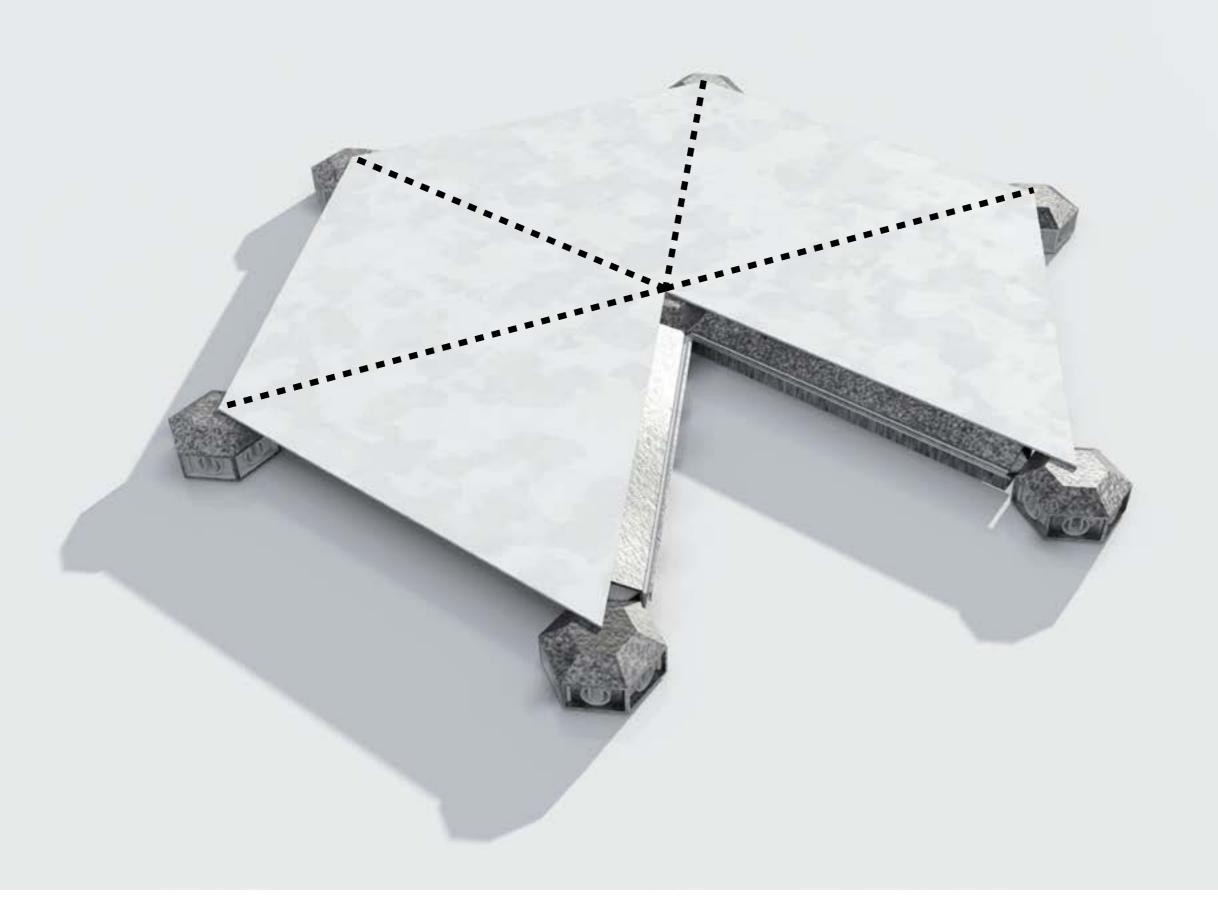




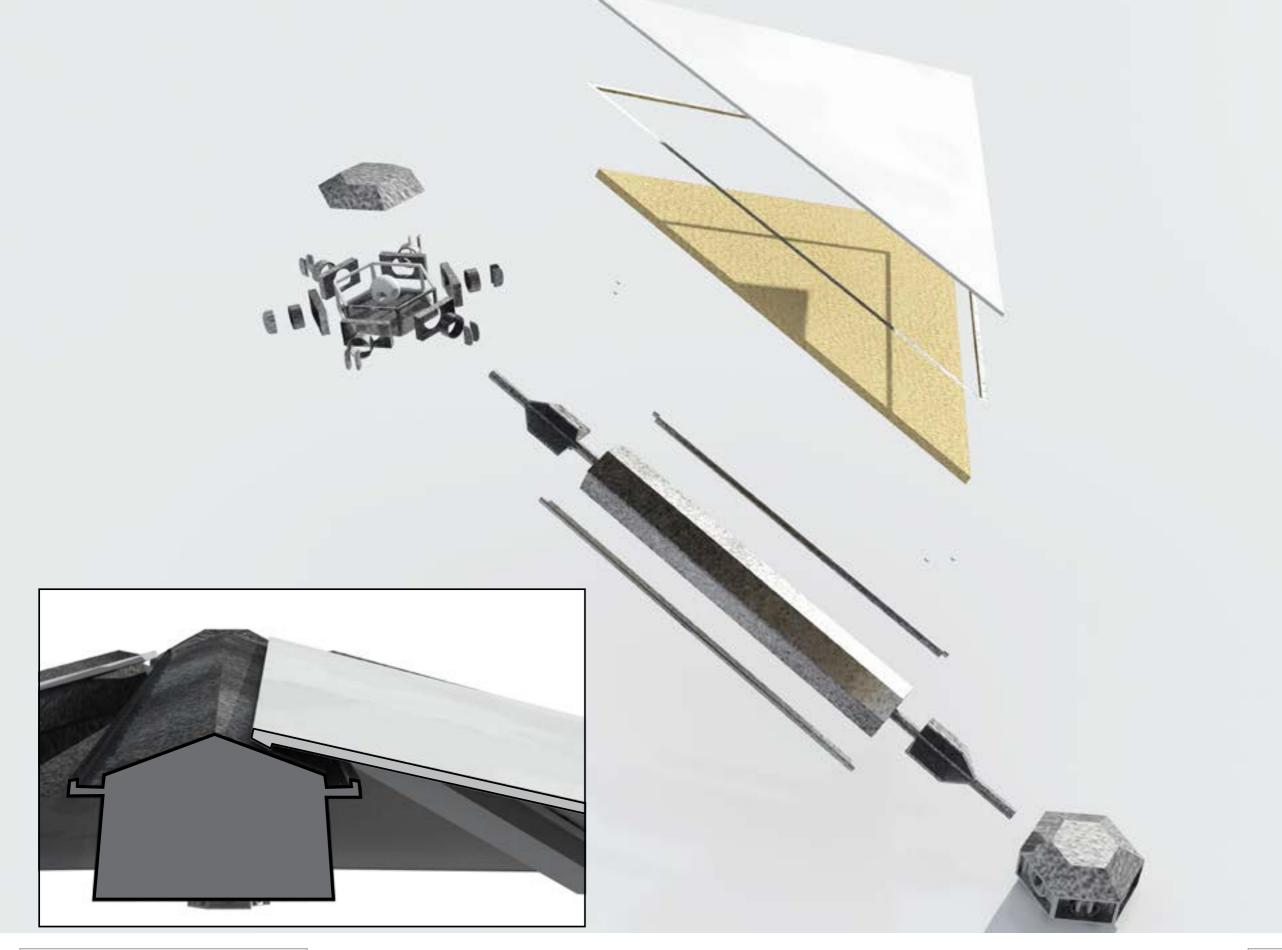




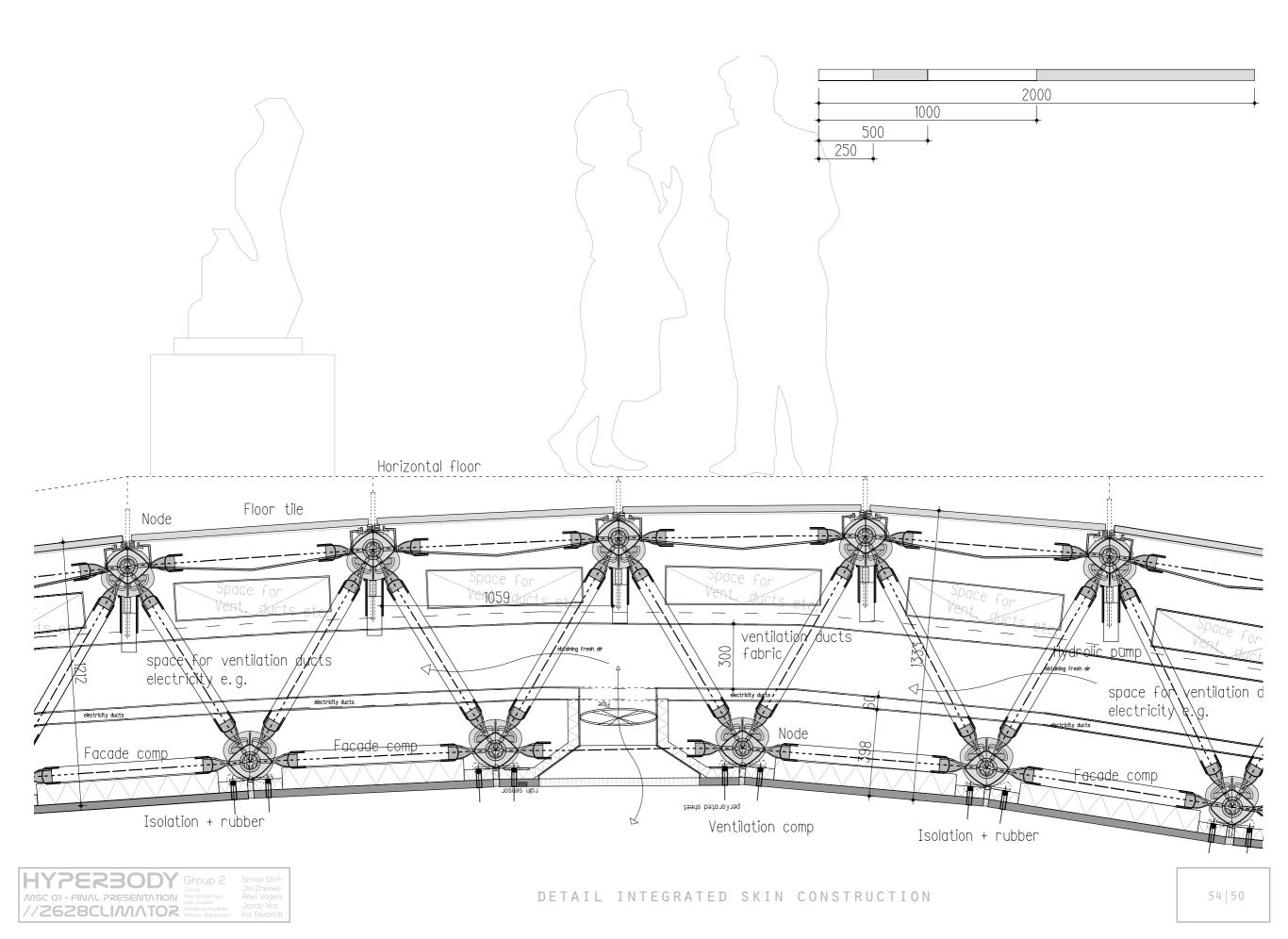
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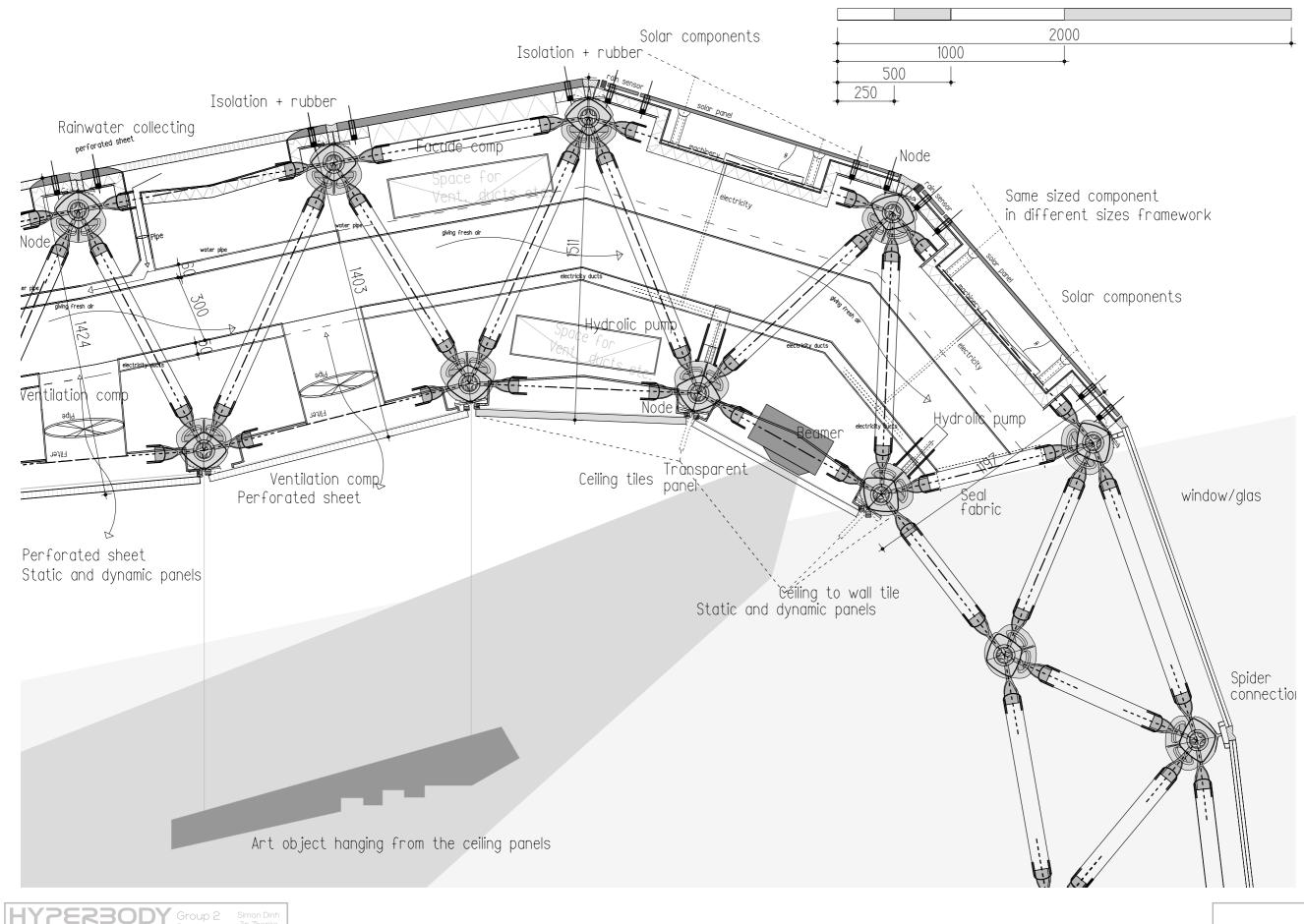






HYPERBODY MISC OI - FINAL PRESENTATION //2628CLIMATOR	Tutors: Kas Oosterhuis Gijs Joosen	Simon Dinh Jin Zhenke Roel Vogels Jordy Vos Ira Tavlaridi
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MSC OI - FINAL PRESENTATION

//2628CLIMATOR Achilleas Psylidia Matteo Baldassari



Skintegration

Simon Dinh - Zhenke Jin - Ira Tavlaridi - Roel Vogels- Jordy Vos TU Delft Hyperbody Msc1 - Final Review - Group 2 January 2014

ANIMATION

HYPERBODY GROUP 2 Nascol - FINAL ARESENTATION W. Contents Final Contents Fi