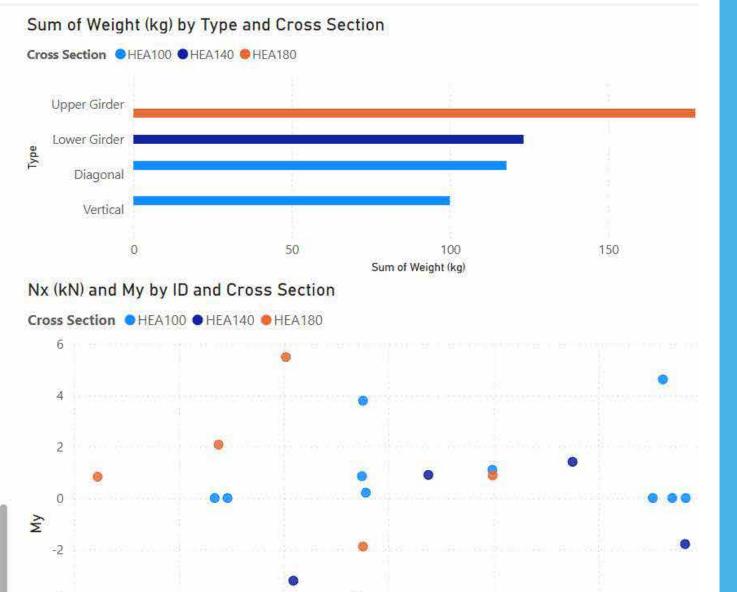




ID .	Weight (kg)	My (kN/m)	Nx (kN)	
Diagonal10	23,58	9	0,00	-265,84
Diagonal11	23,58	3(	0,00	-253,61
Diagonal12	23,58	(	0,00	152,12
Diagonal13	23,58		0,00	183,50
Diagonal 14	23,58		0,00	170,68
Lower Girder5	24,66	-1	6,55	-5,78
Lower Girder6	24,66	4	1,79	182,94
Lower Girder7	24,66		1,41	75,57
Lower Girder8	24,66	(	0,90	-61,98
Lower Girder9	24 66		3.22	-190.75
Total	518.82			



## WSO2



## Parametric Engineering:

## Collaborate and interact with structural data on the cloud

Karamba3D allows for quick, accurate, and parametric finite element calculation. Geometries can be quickly optimized and iterated through parametric processes. Leveraging the Speckle platform, collaboration has been made easier, where structural models can be sent and received from the cloud. The workshop will also explore interactive dashboards in PowerBl where one can access the data from the structural calculation and optimization results from Karamba3D to have a holistic understanding of the models.

The workshop will be taught in a seminar-style format, where the tutors will guide the participants through live demos, and the participants will have the opportunity to experiment with the prepared material.

Tutors · Clemens Preisinger, Matthew Tam and Georg Lobe | University of Applied Arts Vienna, Karamba3D, Bollinger+Grohmann

Requirements · Participants should bring their own laptops (windows is preferred) previous knowledge in Rhino/Grasshopper/Karamba3D/Speckle/PowerBI would be greatly beneficial

Capacity · 25 Participants