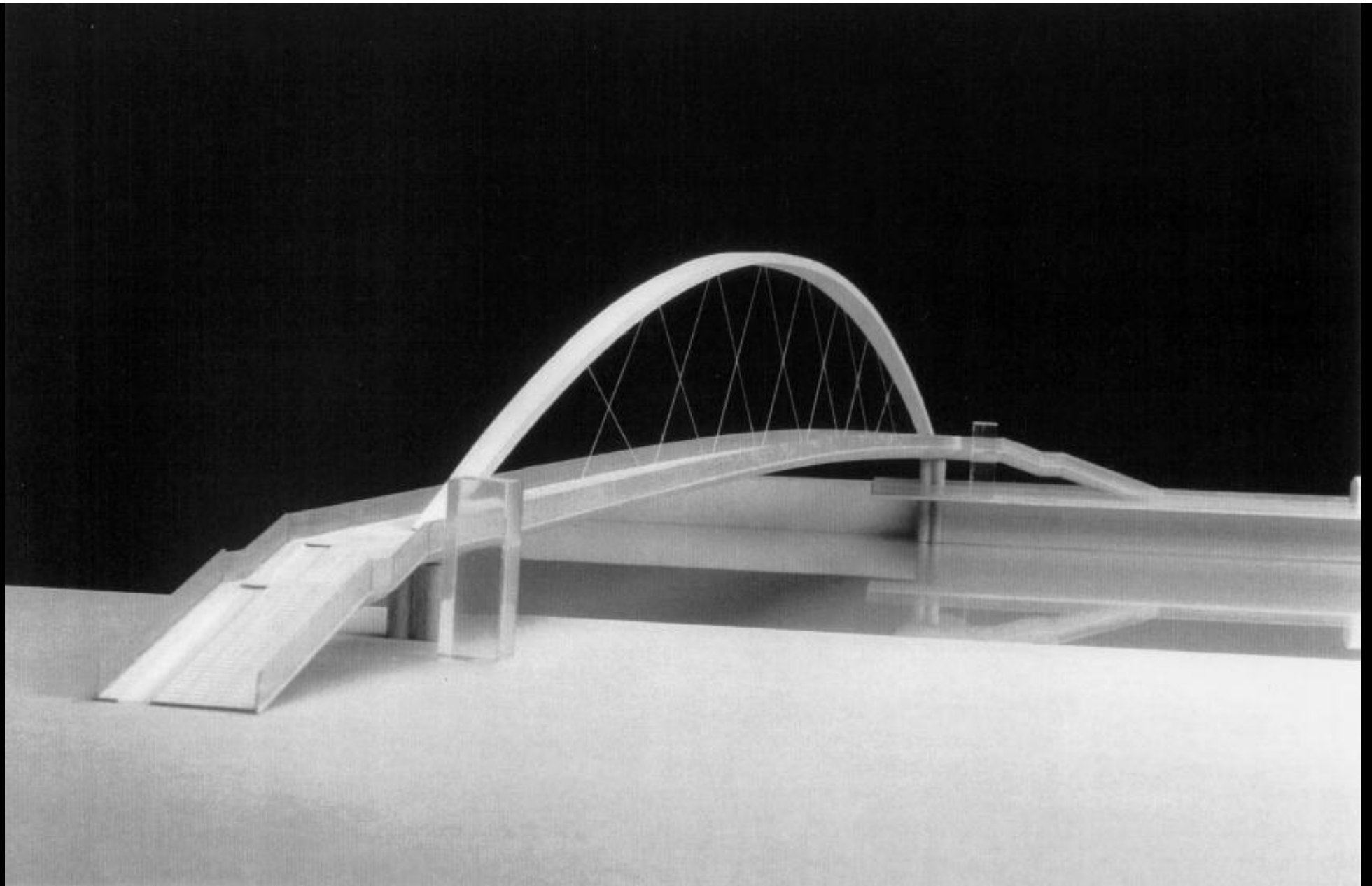








BRUGGEN

Bruggen van de toekomst

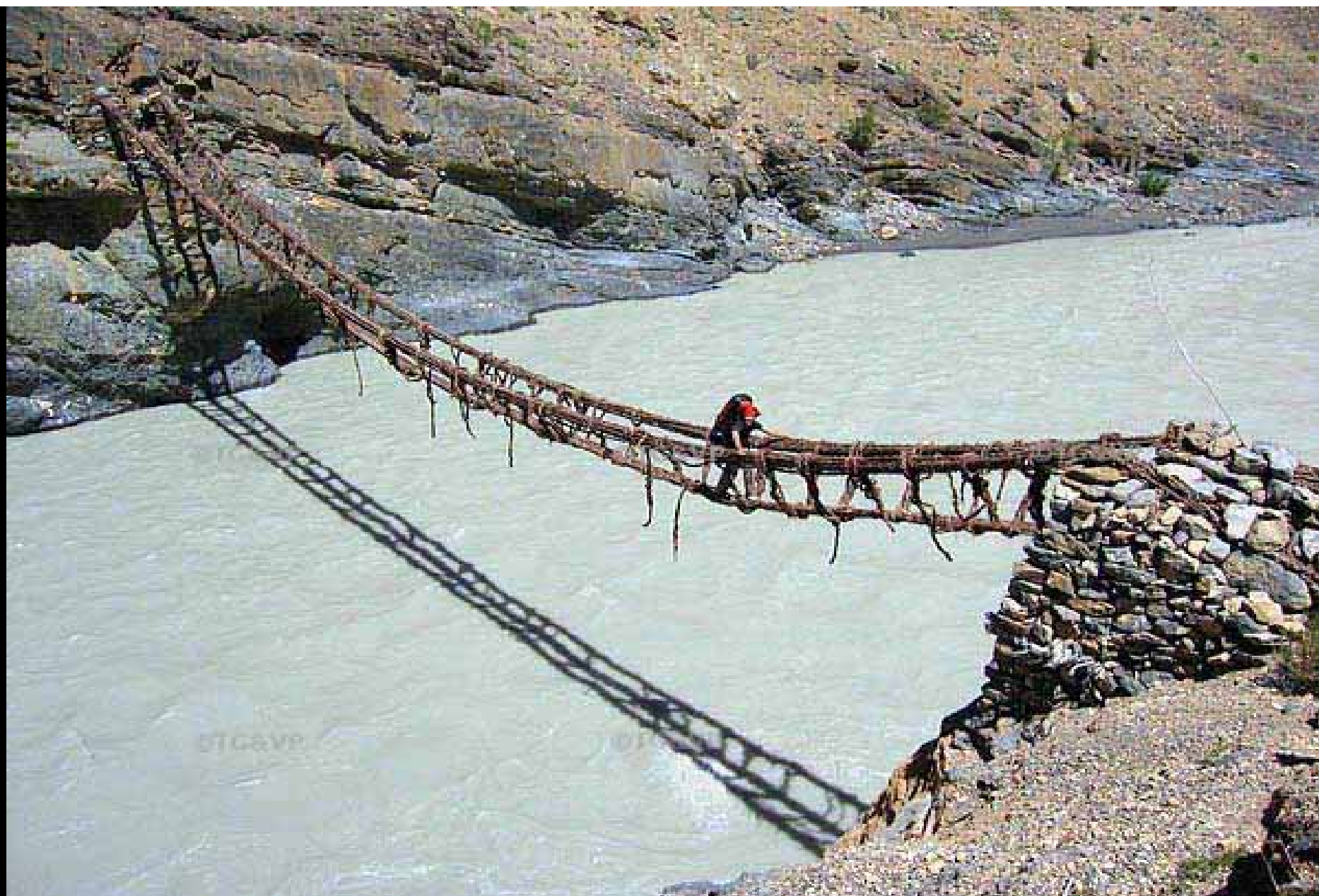
Welke uitdagingen kunnen we verwachten ?

Jean-Yves Del Forno

greisch

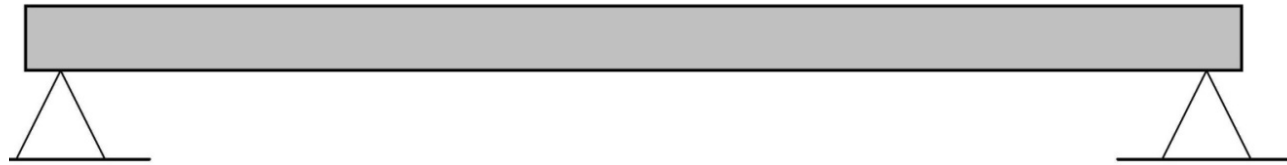








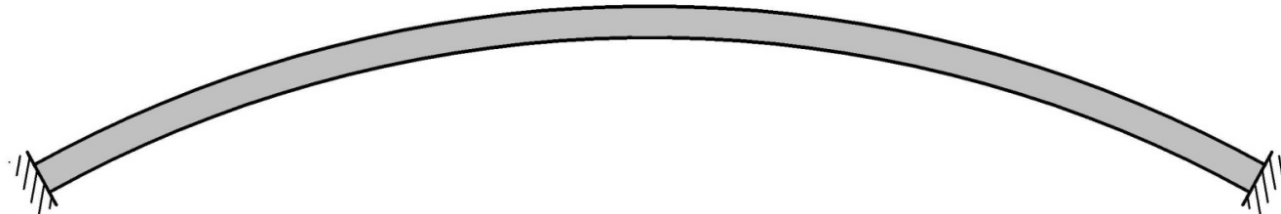
Pure buiging Balk



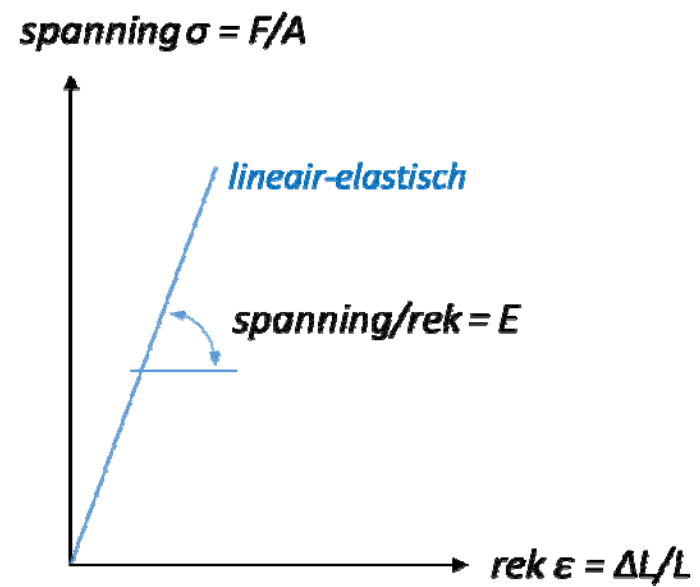
Pure tension Ketting



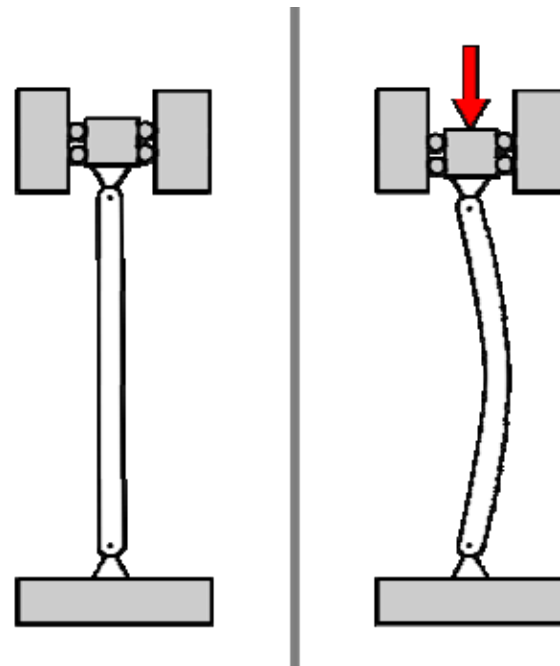
Pure compression Boog



Wet van Hooke



Eulerknik



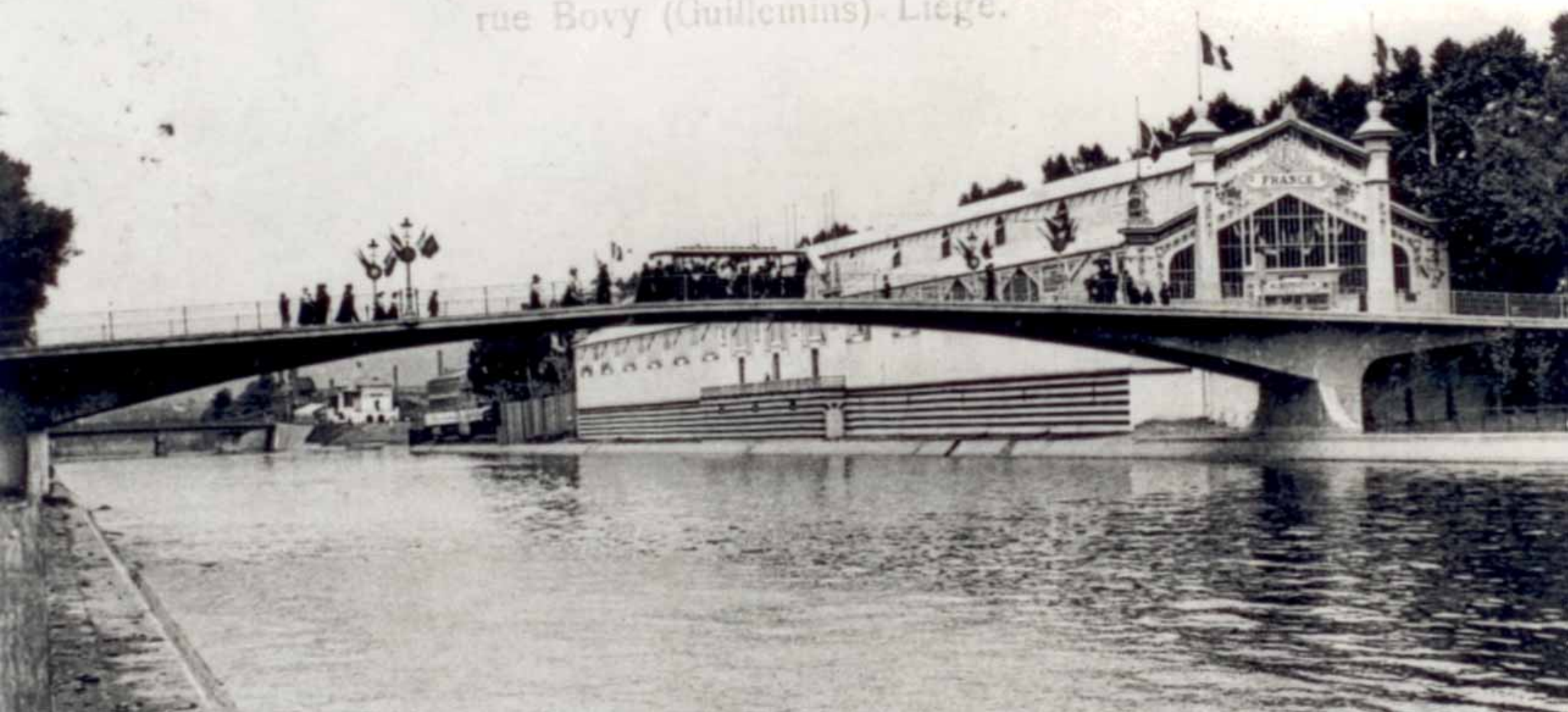




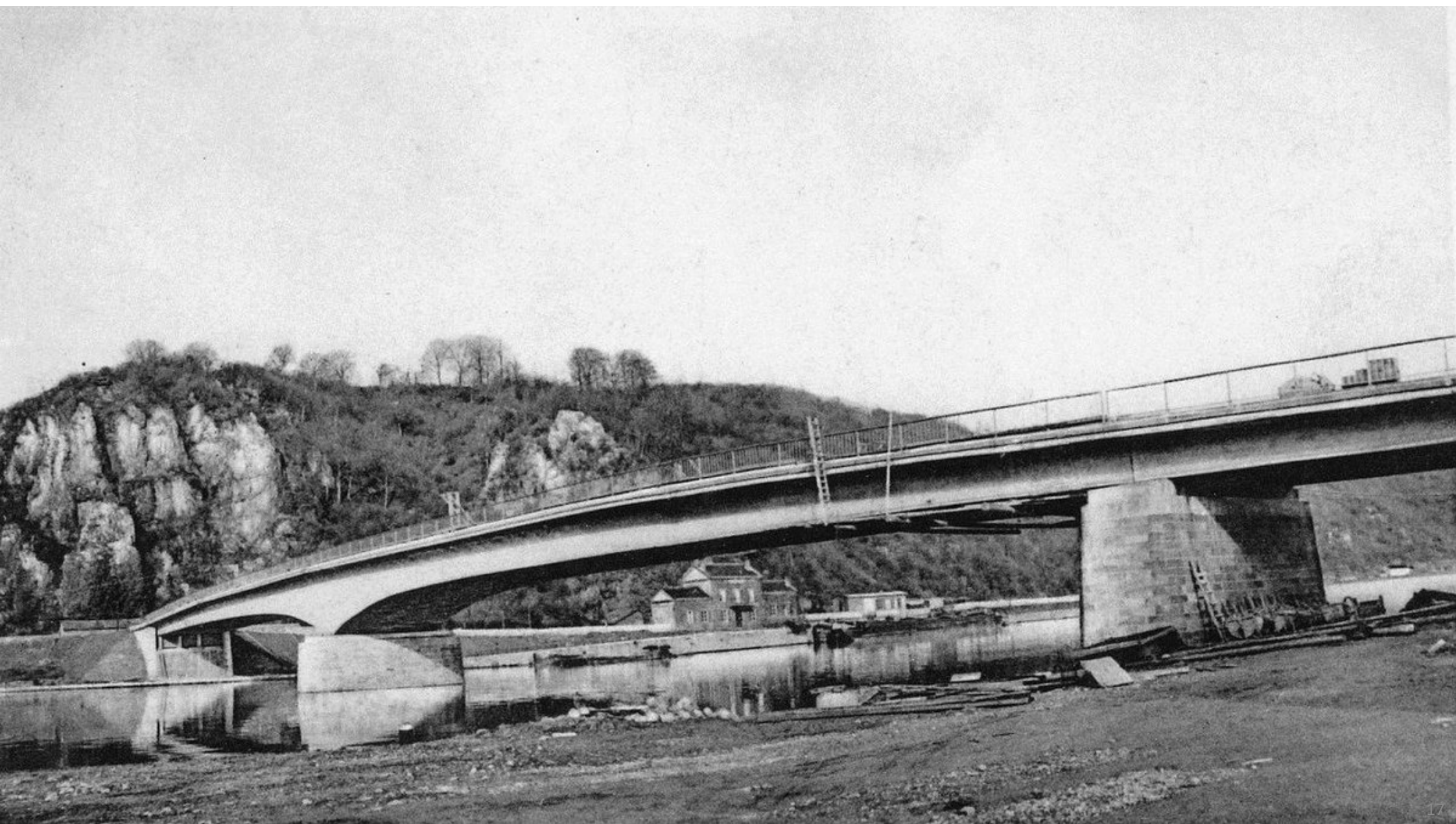




Exposition de Liège 1905. — Pont en béton armé —
Ciment fourni par la Maison F. Legrand-Haas
rue Bovy (Guillemins) - Liège.































Evoudige principes

Een brug voorziet in een basisbehoefte

Een brug weegt

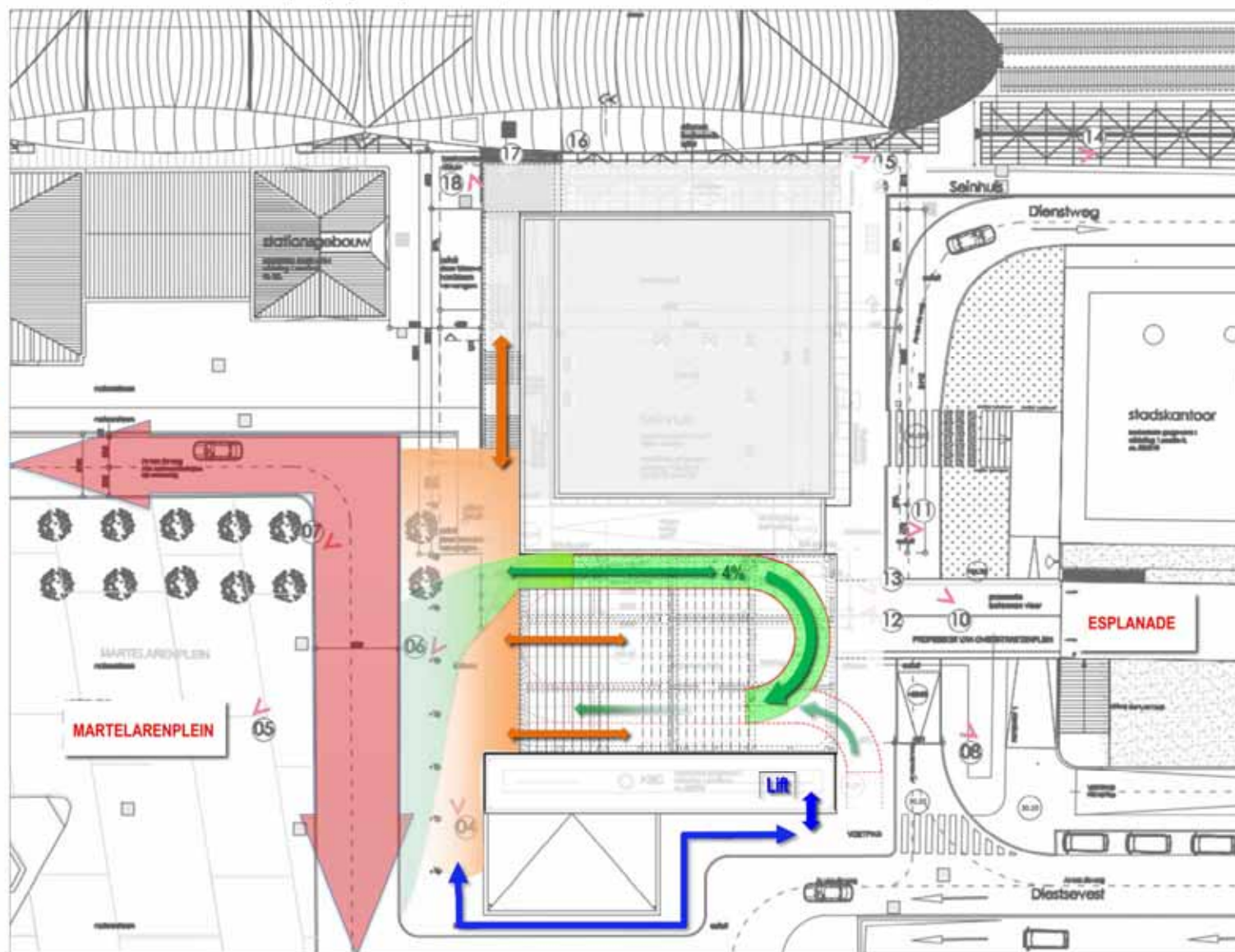
Een brug is duur

Een brug duurt lang

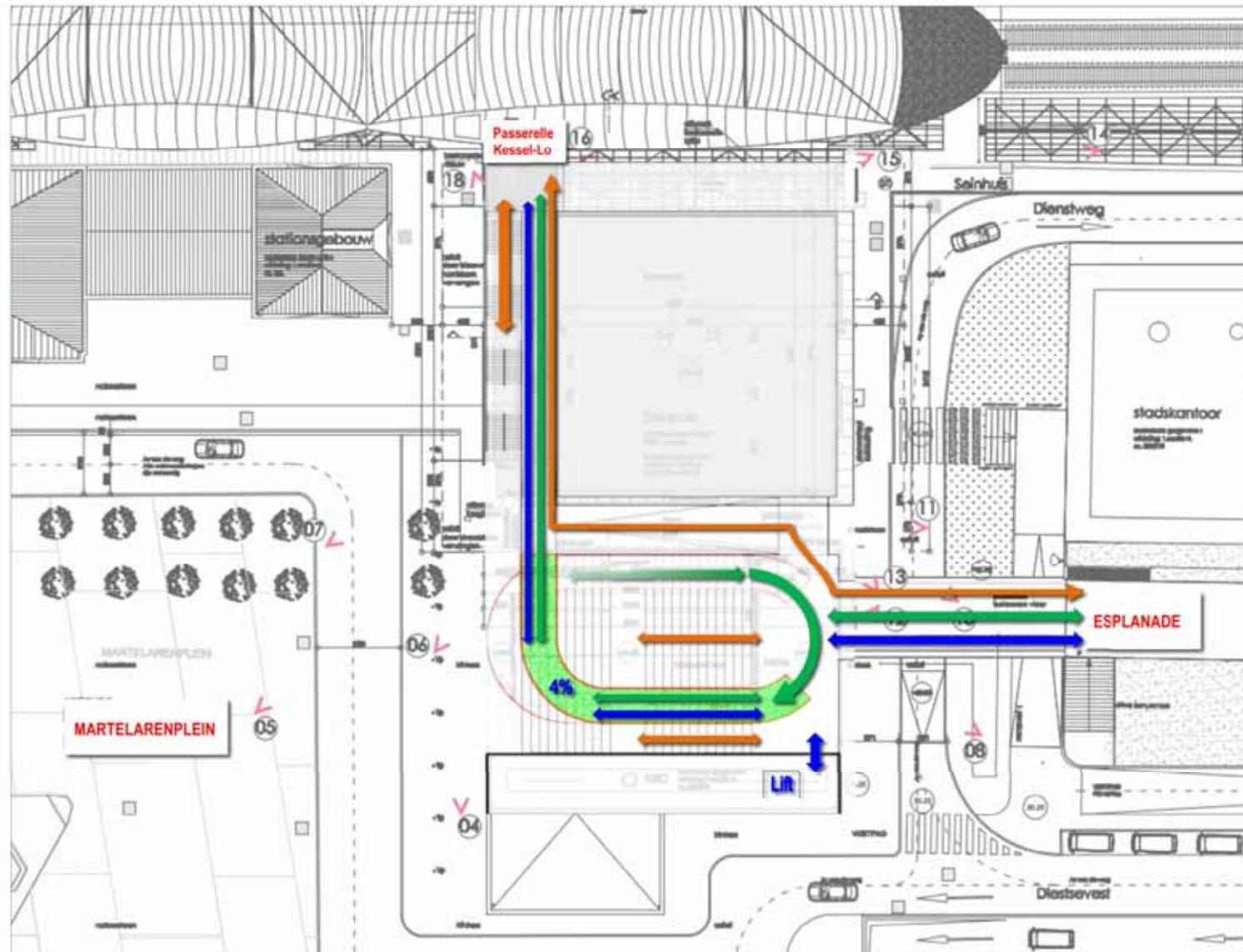
Een brug moet stabiel zijn in al zijn configuraties

Een brug wordt oud





Circulatie plan – BOVENNIVEAU : Fietzers / Voetgangers / Rolstoelgebruikers







N ↑

ciel

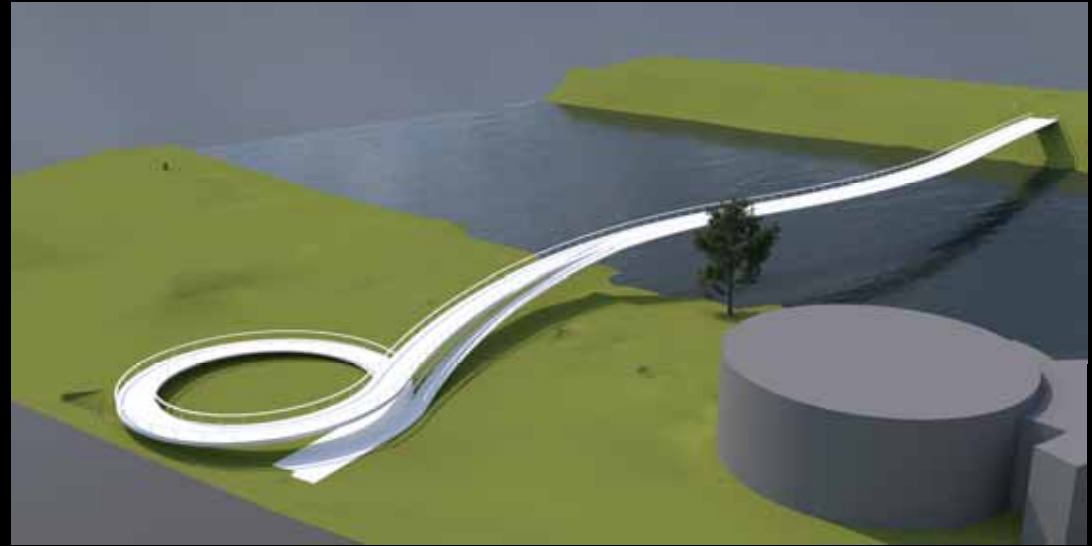
Centre-Ville

Passerelle Rapas

Digue

Ripisylve

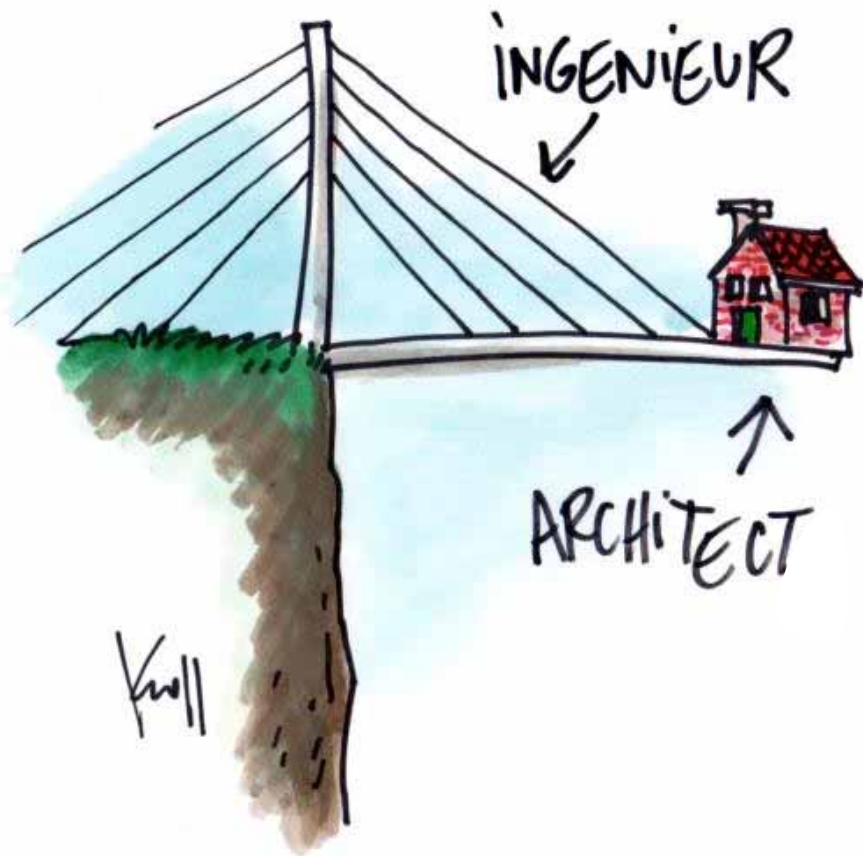
Fleuve







«Wat voor nut heeft het dat de rechte lijn de kortste is als de kromme lijn niet de aangenaamste is ? »



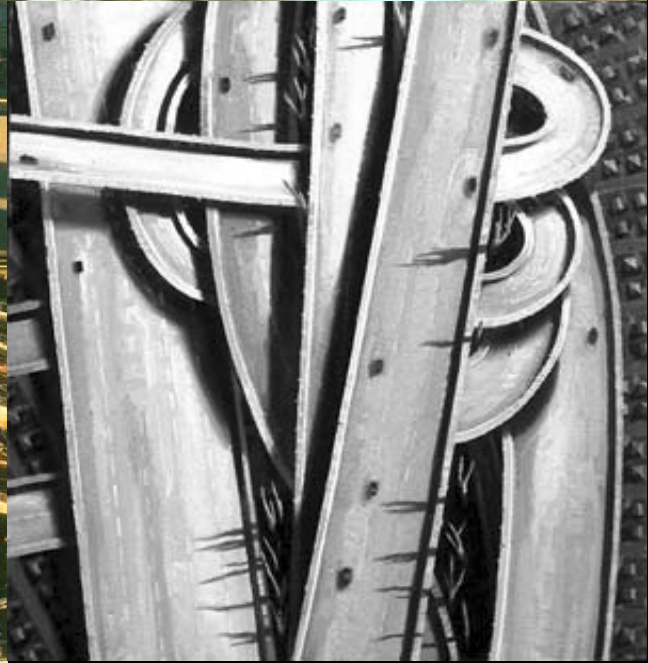
SAMENWERKING TUSSEN INGENIEUR EN ARCHITECT











Kosten



Natuurlijke schoonheid

Toegevoegde schoonheid

Kunstmatige schoonheid

Kosten



Natuurlijke schoonheid



Toegevoegde schoonheid



Kunstmatige schoonheid







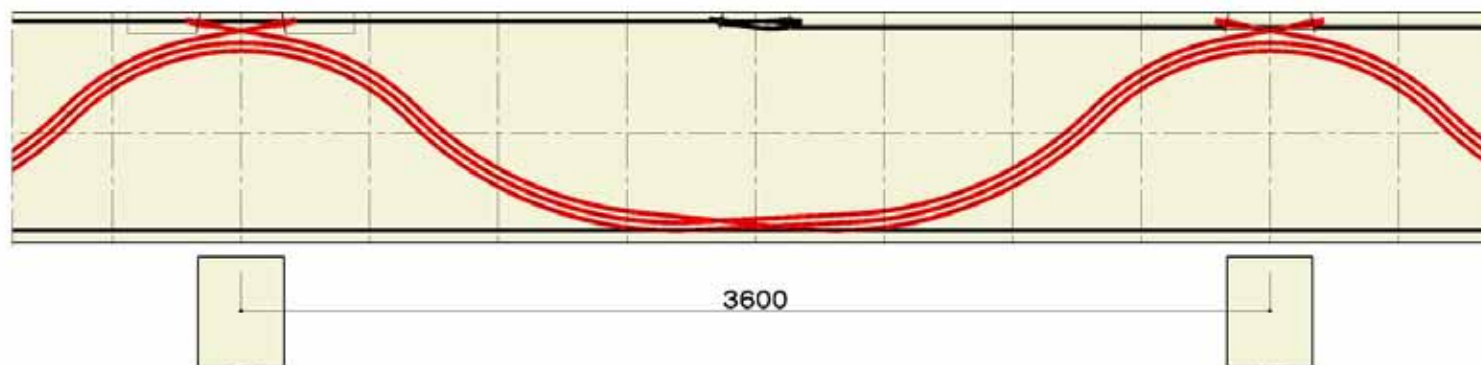




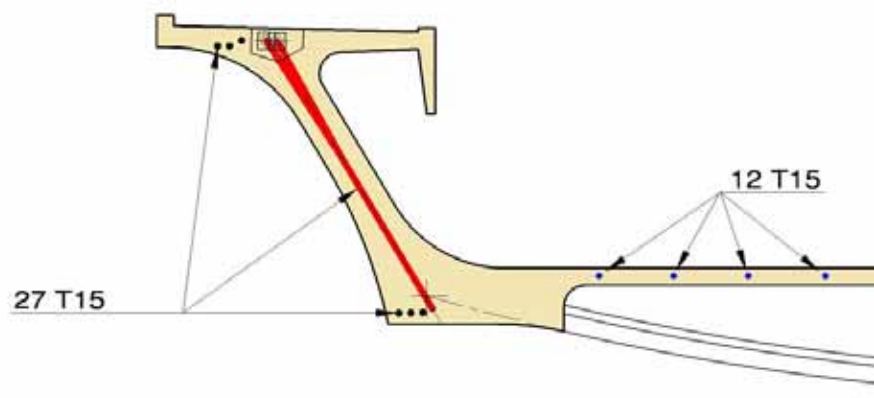




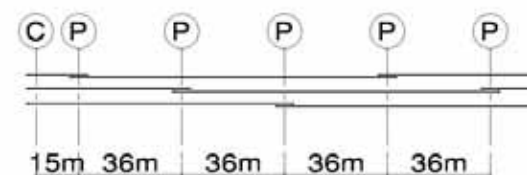
PRECONTRAINTES LONGITUDINALES



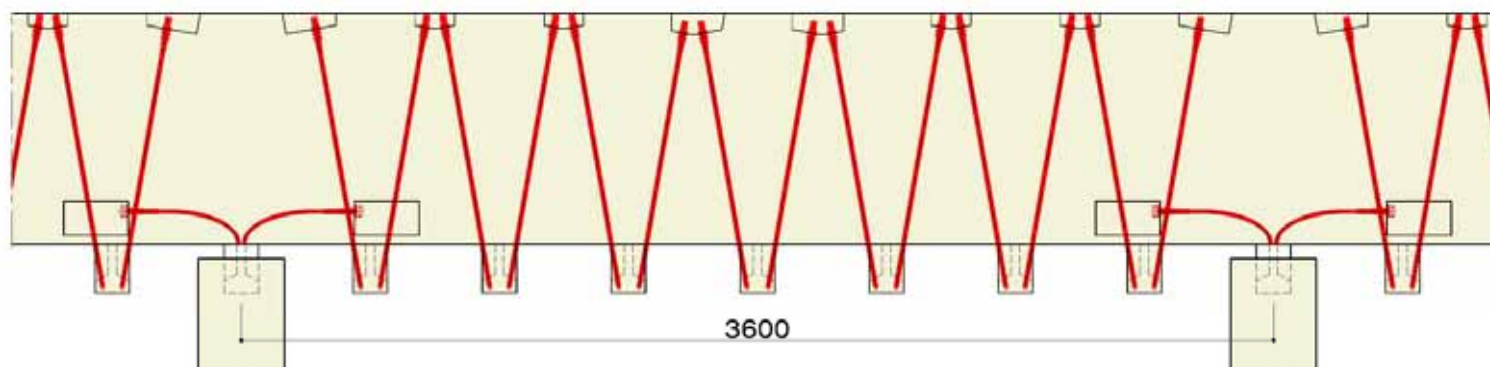
COUPE TYPE



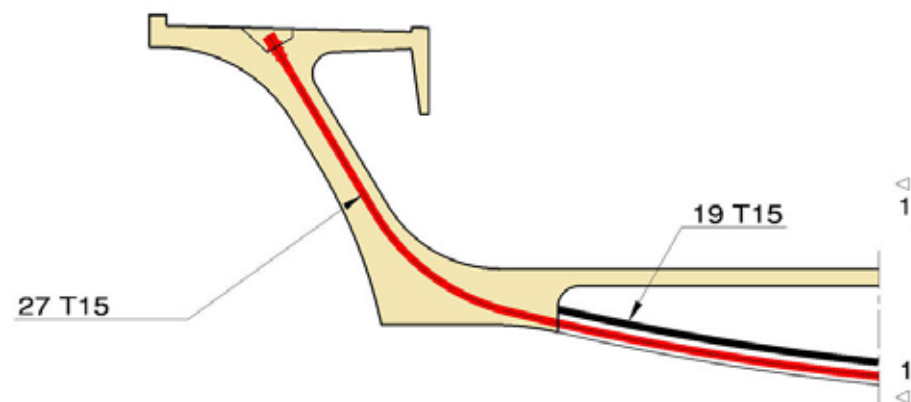
SCHEMA DE PRINCIPE



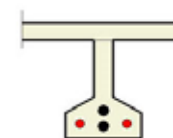
PRECONTRAINTE TRANSVERSALE



COUPE TYPE



COUPE 1-1







“The bitterness of poor quality services remains a long time after the short sweet taste of low price !!”



And we can save 700 lira by not making soil tests

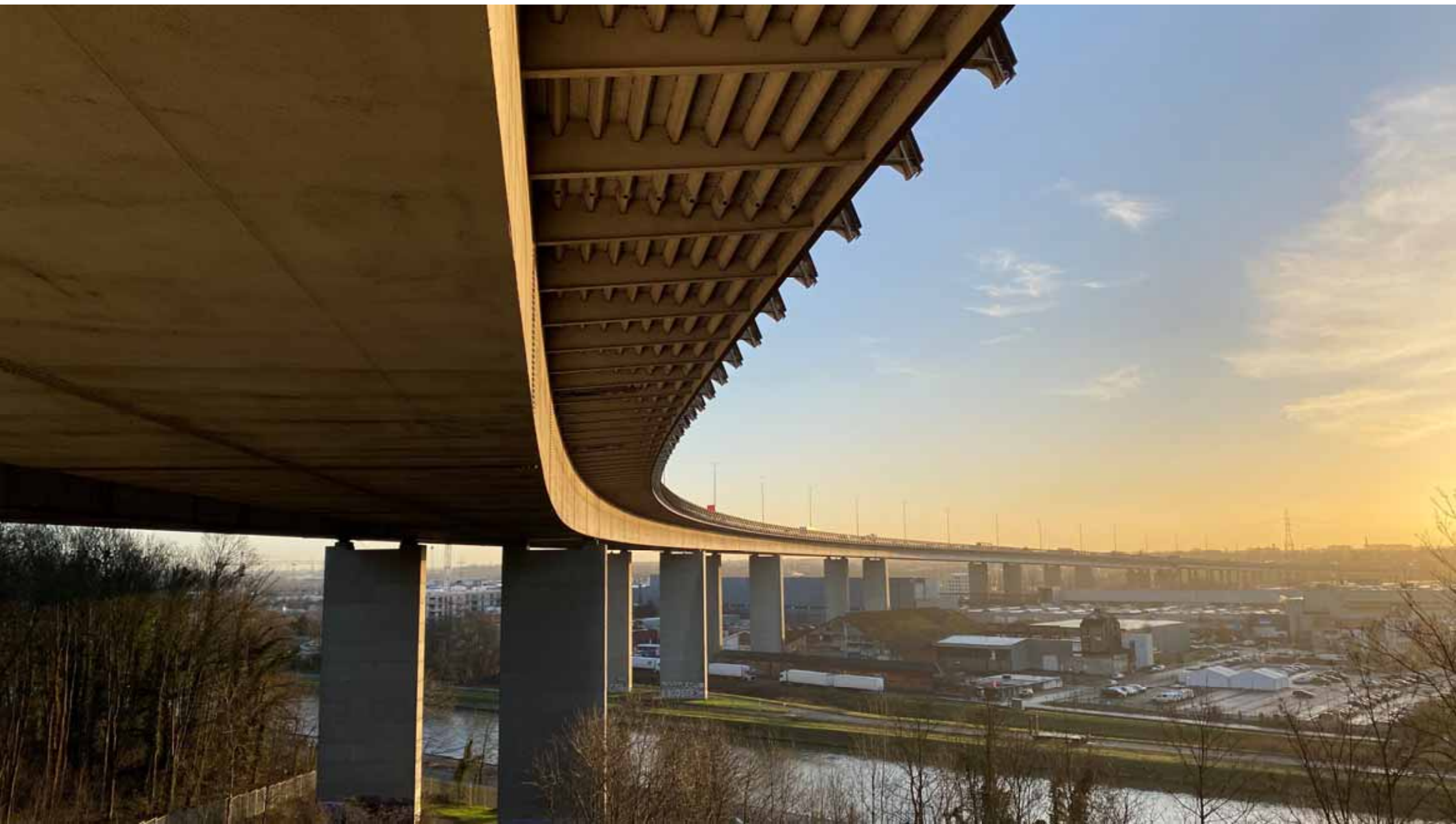












BRUGGEN

Bruggen van de toekomst

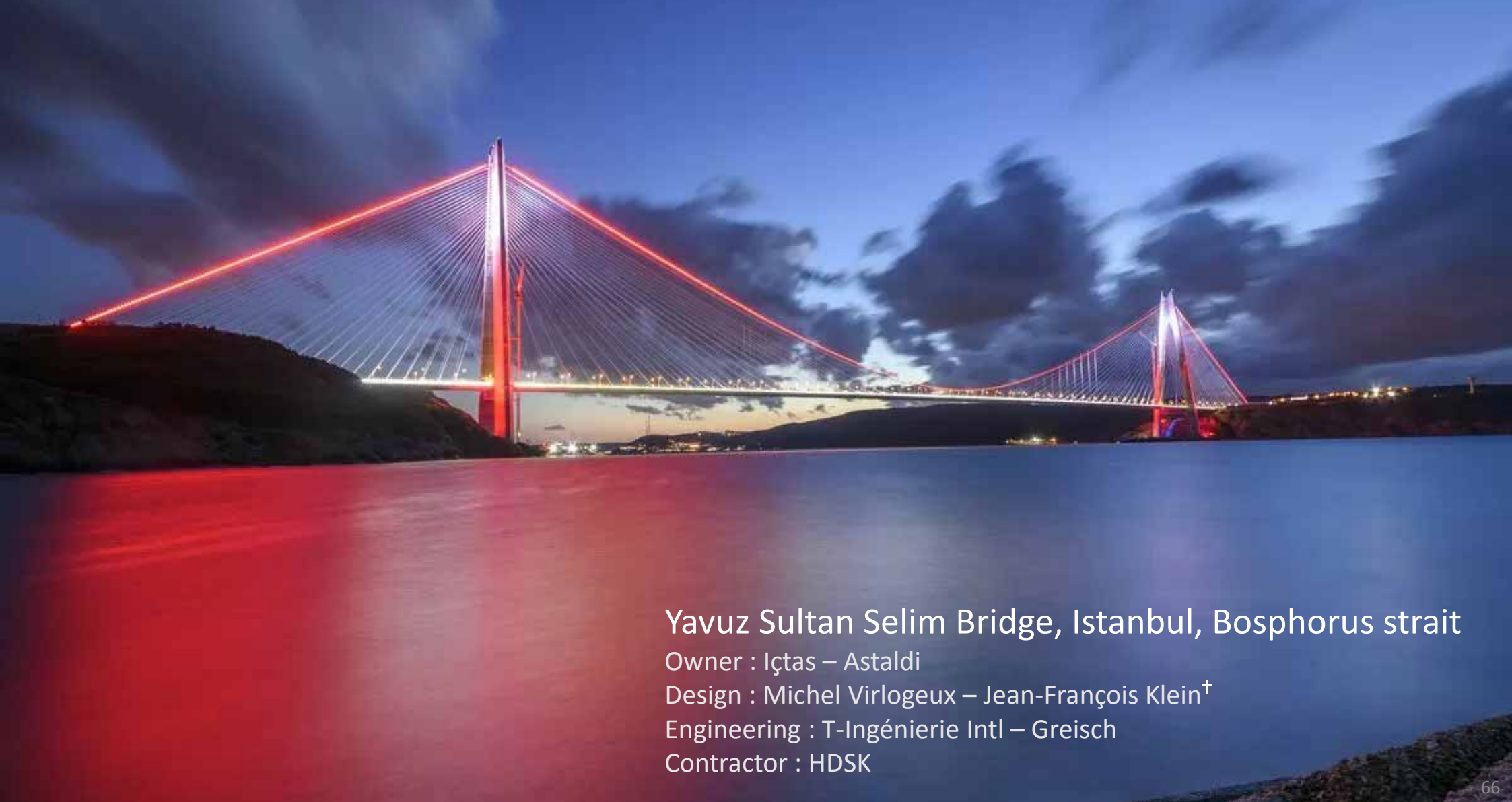
Welke uitdagingen kunnen we verwachten ?

Jean-Yves Del Forno

greisch



BASISBEHOEFTE – STATICA – ECONOMIE – DUURZAAMHEID – BOUWMETHODE – ONDERHOUD



Yavuz Sultan Selim Bridge, Istanbul, Bosphorus strait

Owner : İçtas – Astaldi

Design : Michel Virlogeux – Jean-François Klein[†]

Engineering : T-Ingénierie Intl – Greisch

Contractor : HDSK