

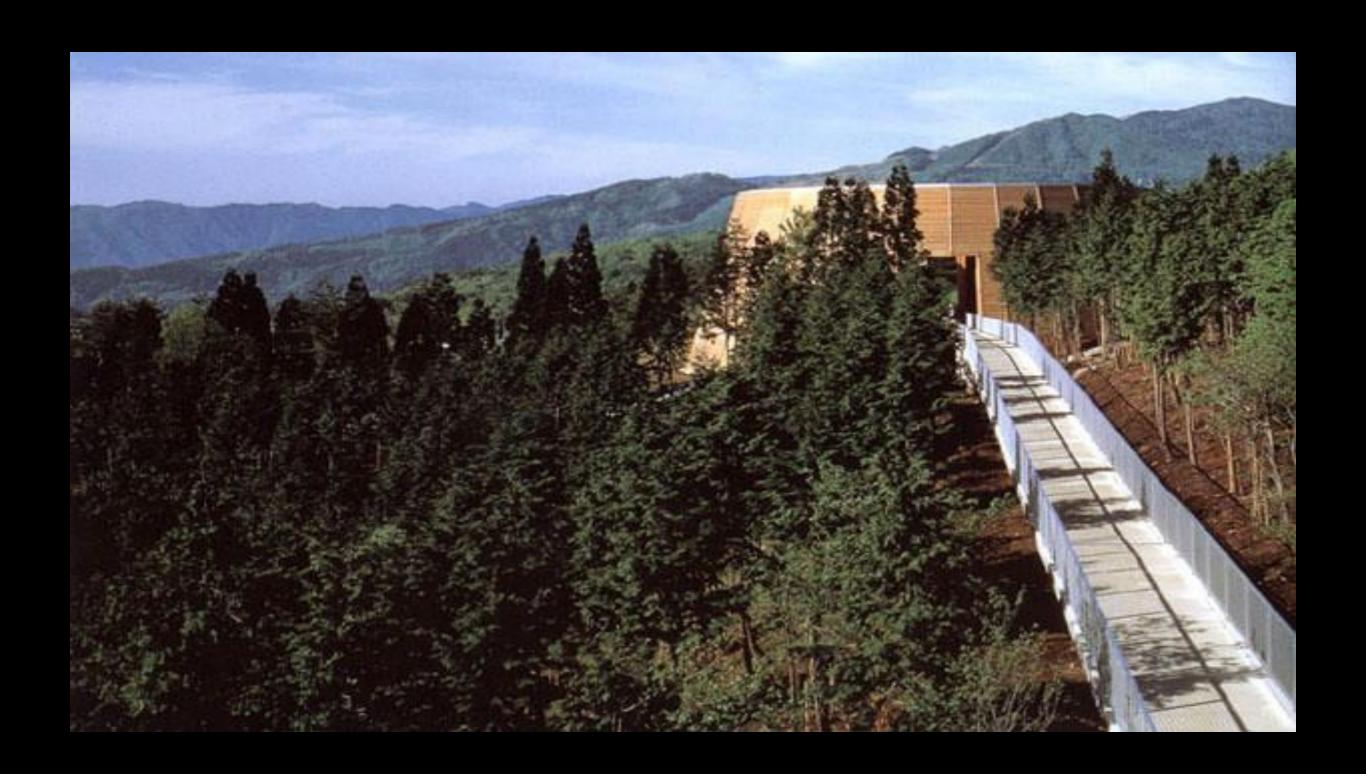
first question

who here works in a timber building?

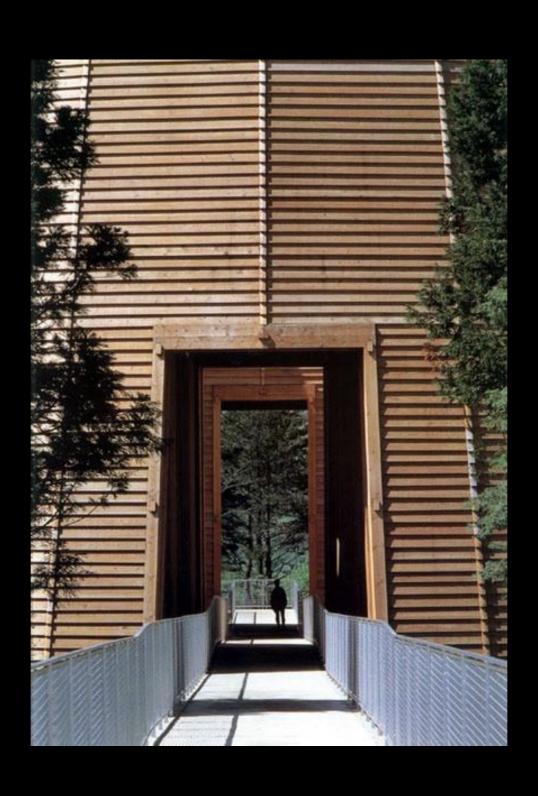
the wood museum, japan



modern interpretation of traditions



in the wood, of the wood



second question

how many of you consider architects as important customers / specifiers of timber?

third question

so, how many architects do you think there are in europe?

answer 3

569,000

key customers you're not reaching

your customer chain

- sawmillers / processors
- traders
- manufacturers
- designers architects / engineers
- builders
- end users

seeking the golden fleece

construction timber can be
low or high value architects & engineers provide high value

innovation is the only sustainable route to high value

innovation requires education

europe has some of the best timber education resources in the world

and

has the potential to train the world's architects & engineers to specify more timber

helping to make this happen will exponentially expand your markets

so what do we mean by innovation?

"before the invention of the internal combustion en what improvements they wanted in transportation, have replied - a faster horse"

Henry Ford

rethinking traditional models



untreated oak cladding & roofing shakes



cluster of built forms using bio-based materials



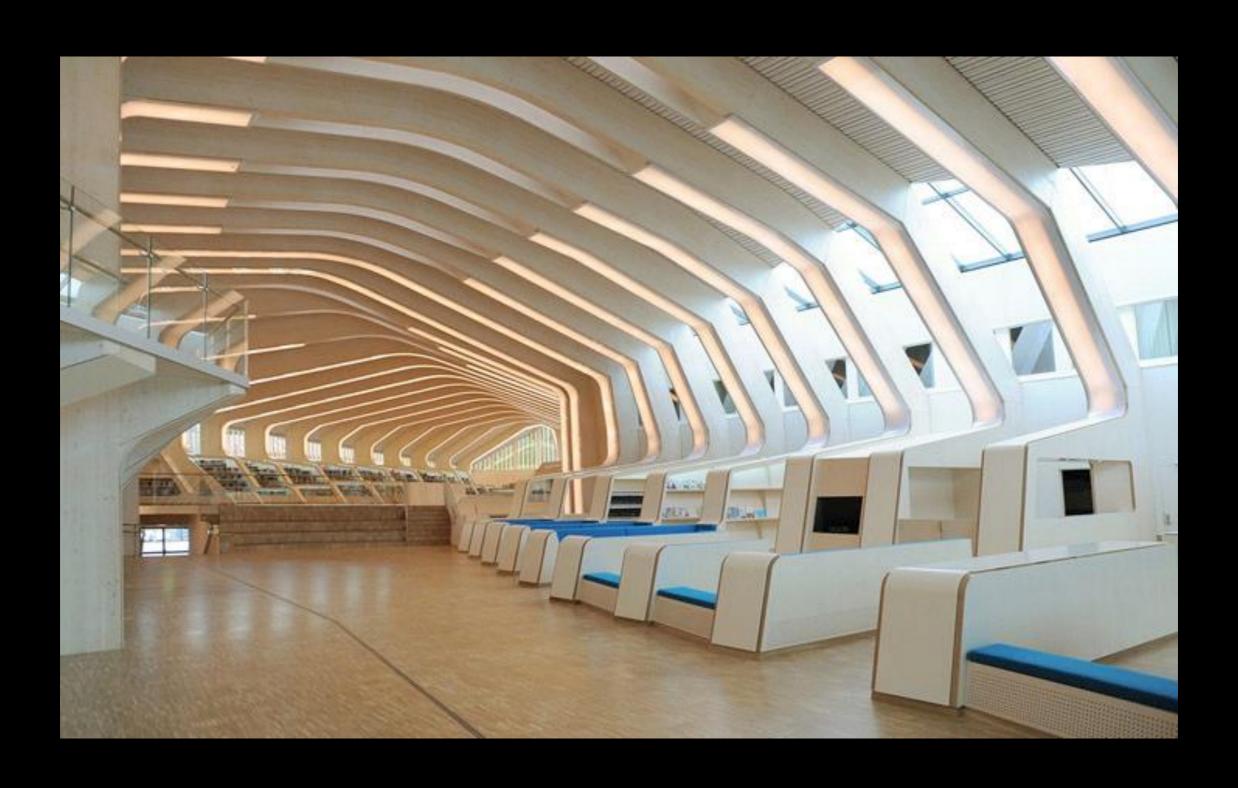
contemporary structural solution



new buildings forms



repeat elements



engineered timber offers new opportunities



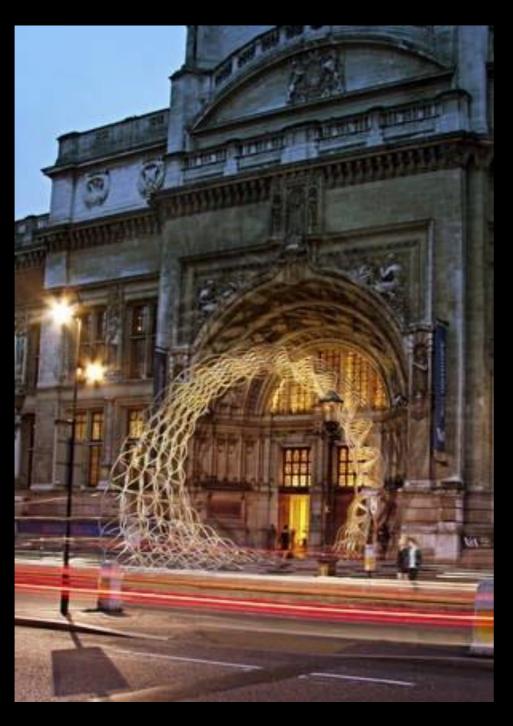
inside and out



for engineers and architects

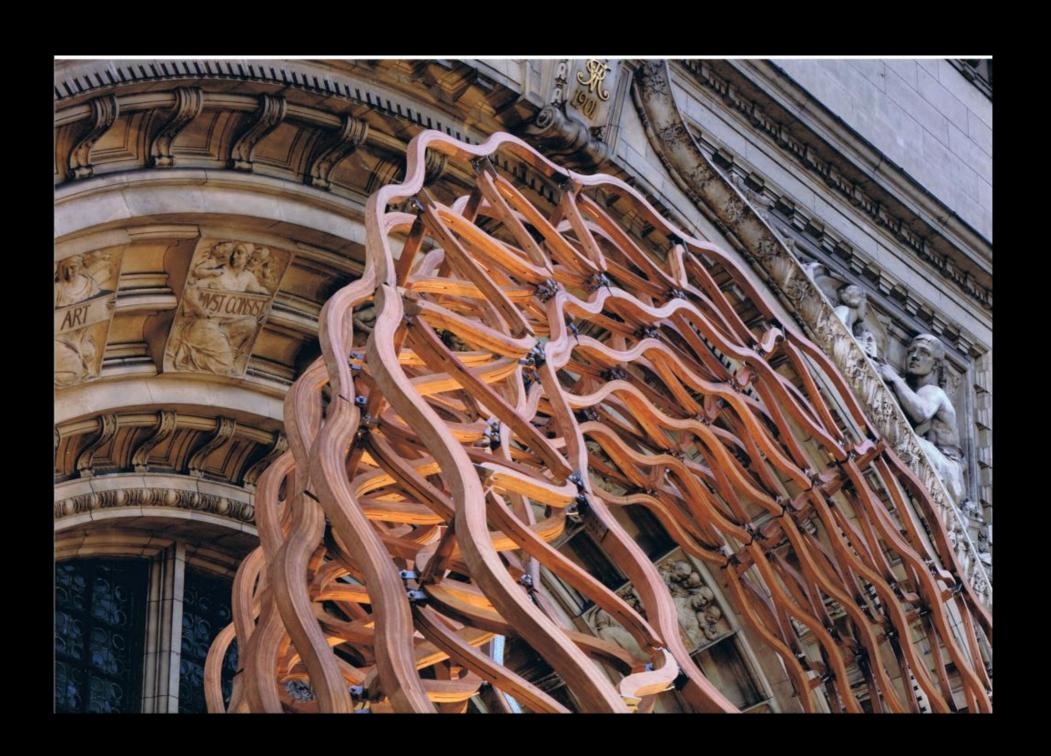


micro-glulam used at urban scale





hardwood & engineered connections



modern methods of construction (mmc)



offsite manufacture



platform timber frame technology

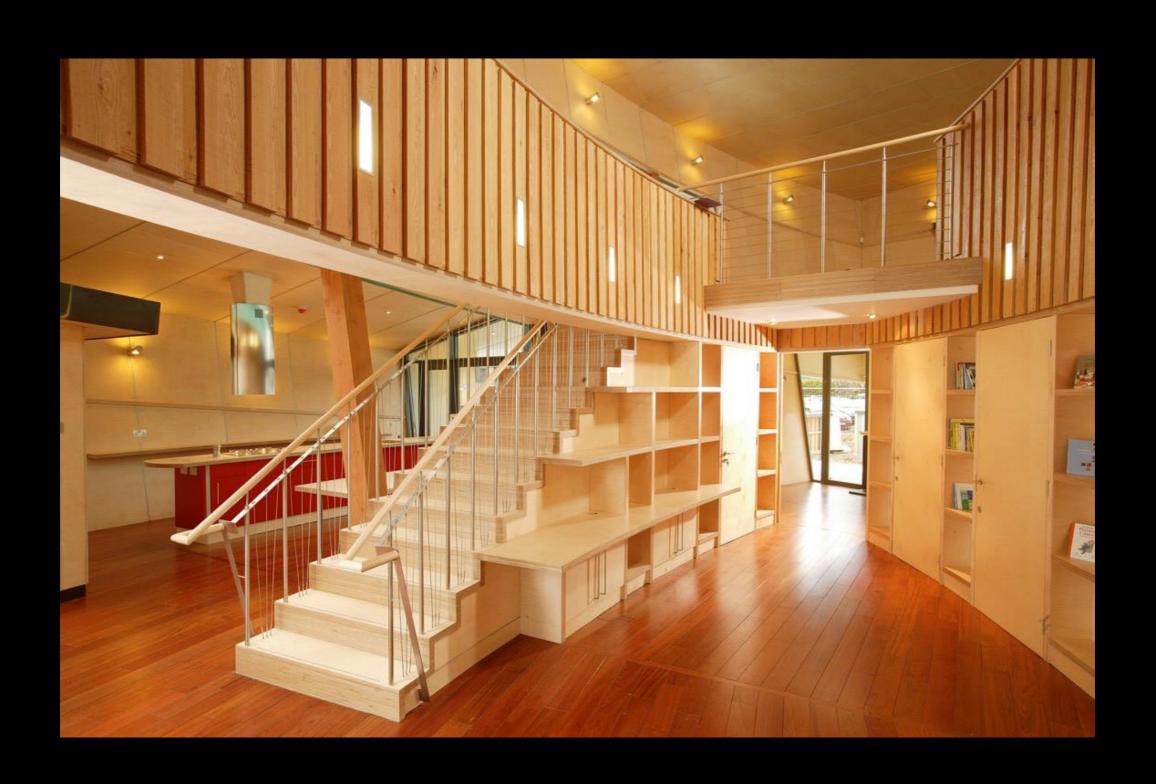


combined with parametric modelling

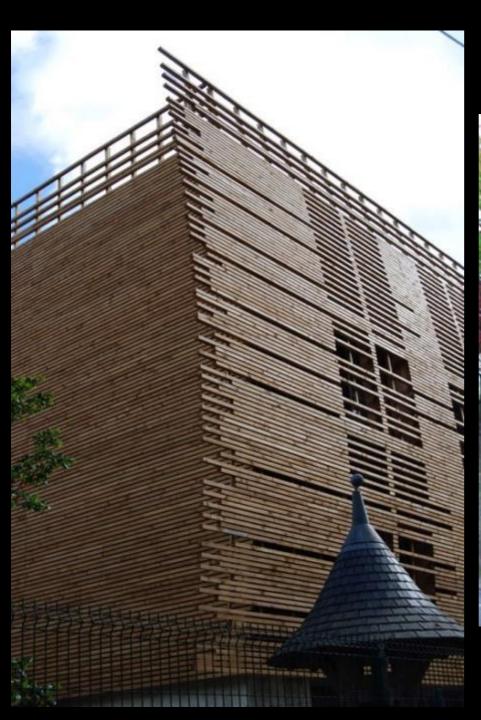




delivering non-standard solutions



huge market in recladding existing structures





prefabricated panelised solutions



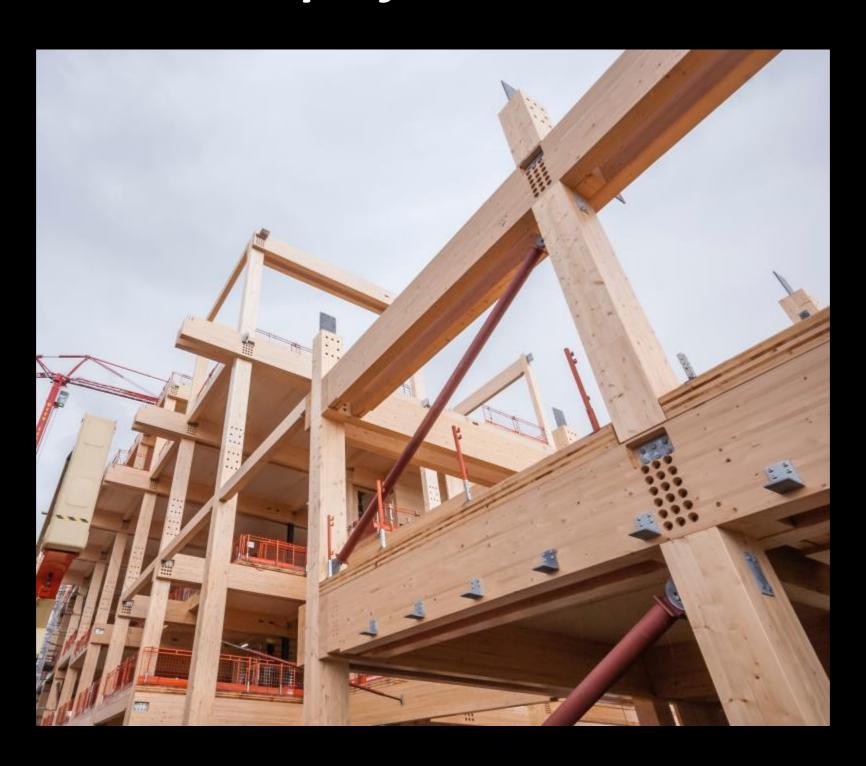
commercial use of sustainable timber technology



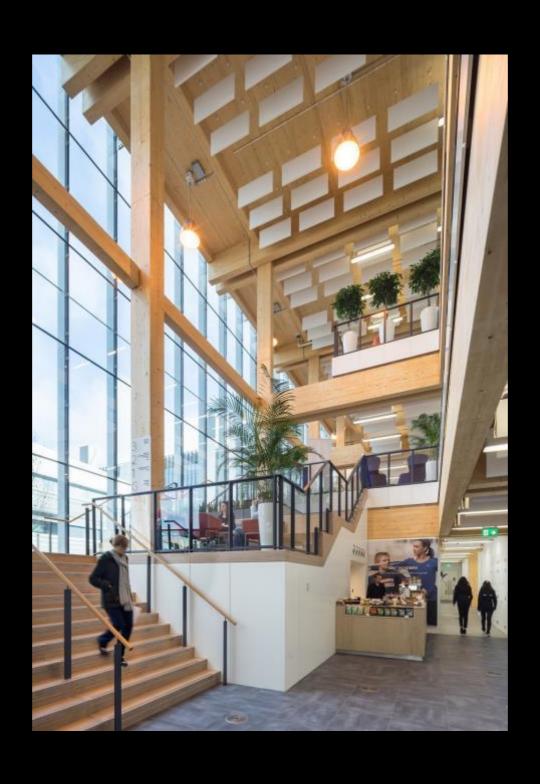
BSkyB Believe in Better Building (BiBB)



clt, glulam & timber cassettes - all prefabricated



delivering healthy working environments



solid timber



excels in difficult conditions





hardwood cross laminated timber the next level



large scale infrastructure using modified wood



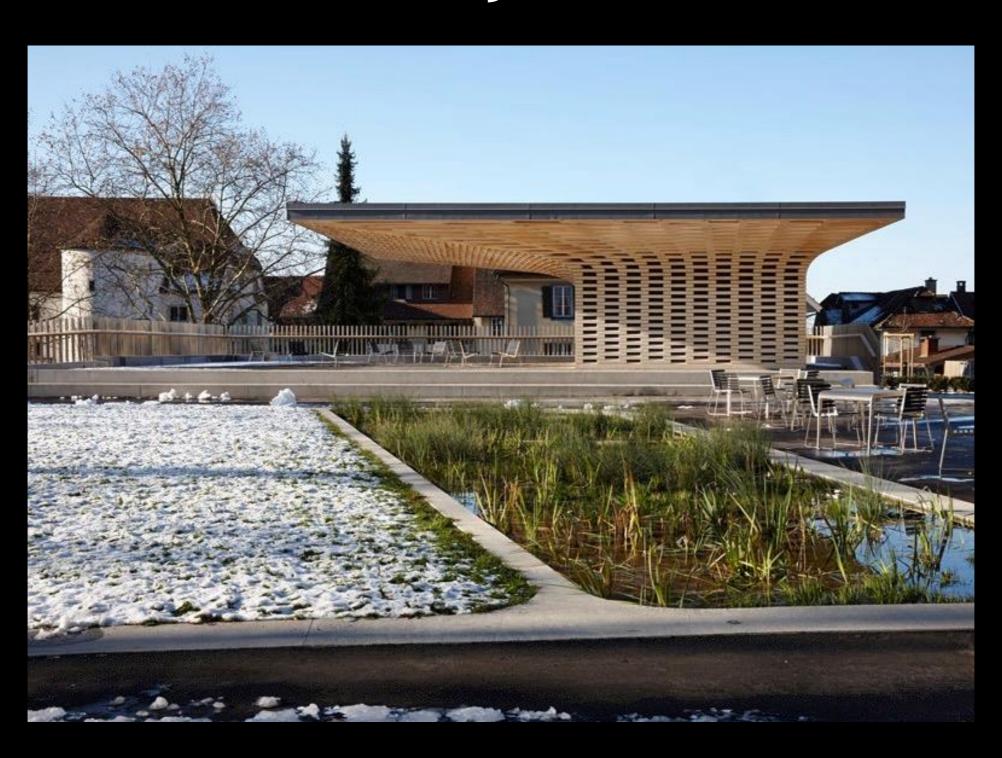
acetylated wood in glulam form



strong & durable



exposure to elements - traditionally hardwoods



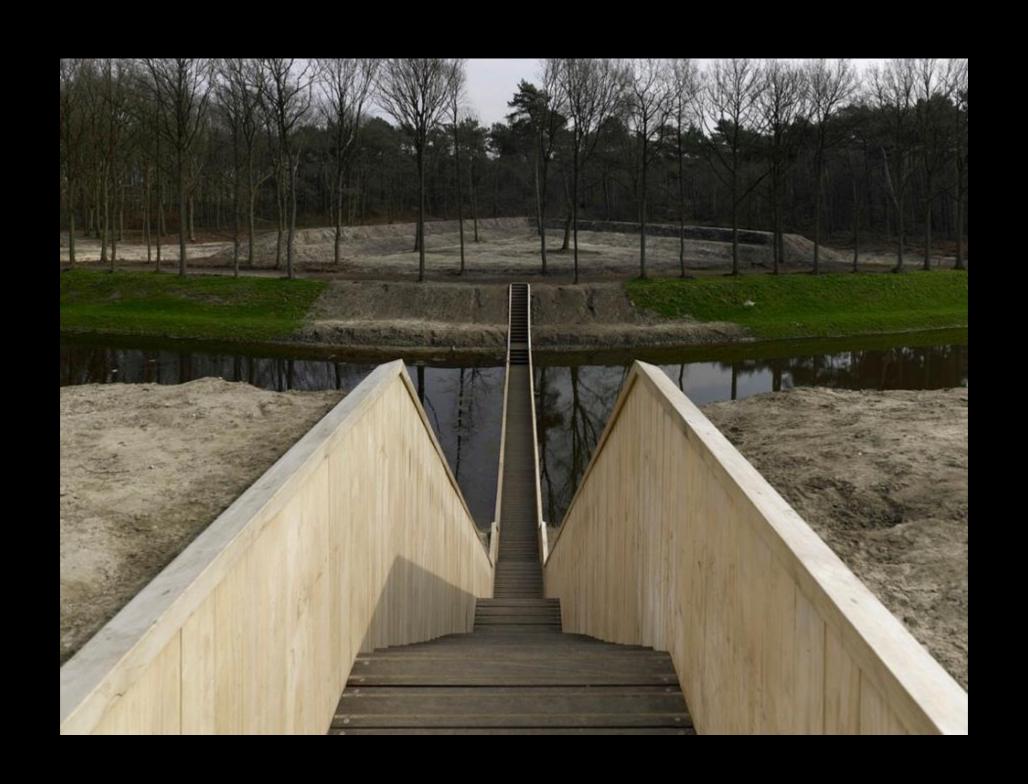
modified wood offers new possibilities



sunken bridge using modified wood



impervious to water damage



netherlands' canals lined with modified wood



and even floating bridges



fabricated in elegant shapes that provide structural stiffness



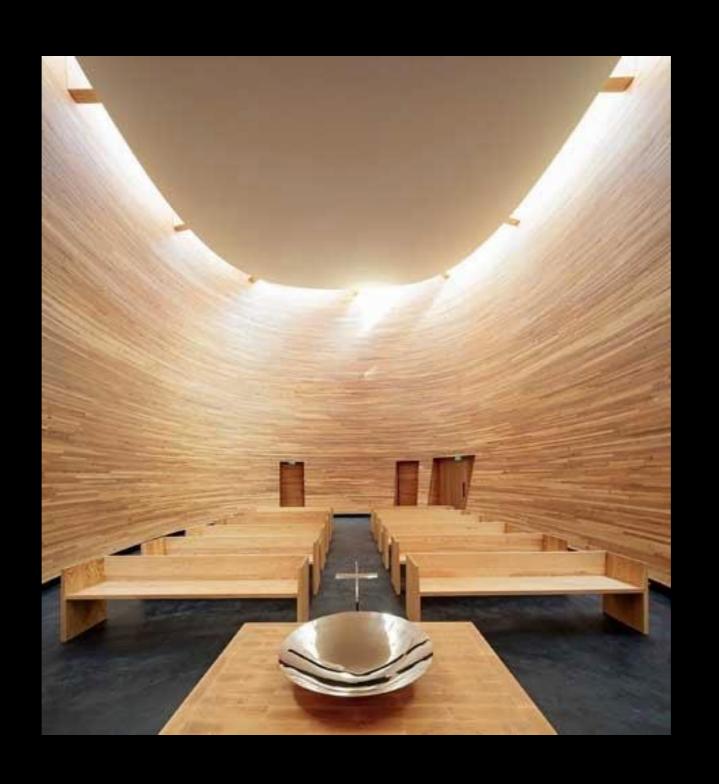
new frontiers for design & manufacture - & maybe for health & safety too?



other forms of modification



nanotechnology applied to wood



transforming the city with wood



why timber cities, why now?

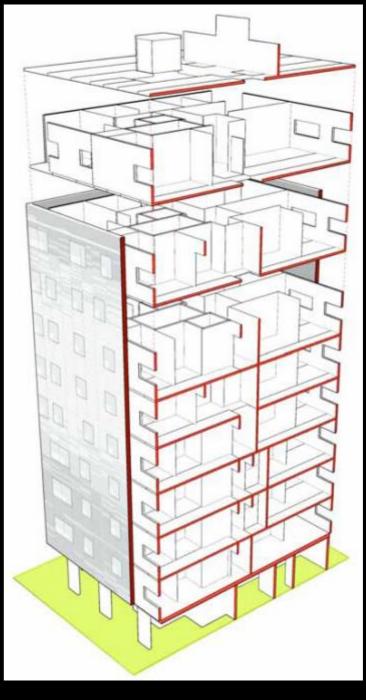


80% of the world's population of eight billion will live in urban situations by 2050

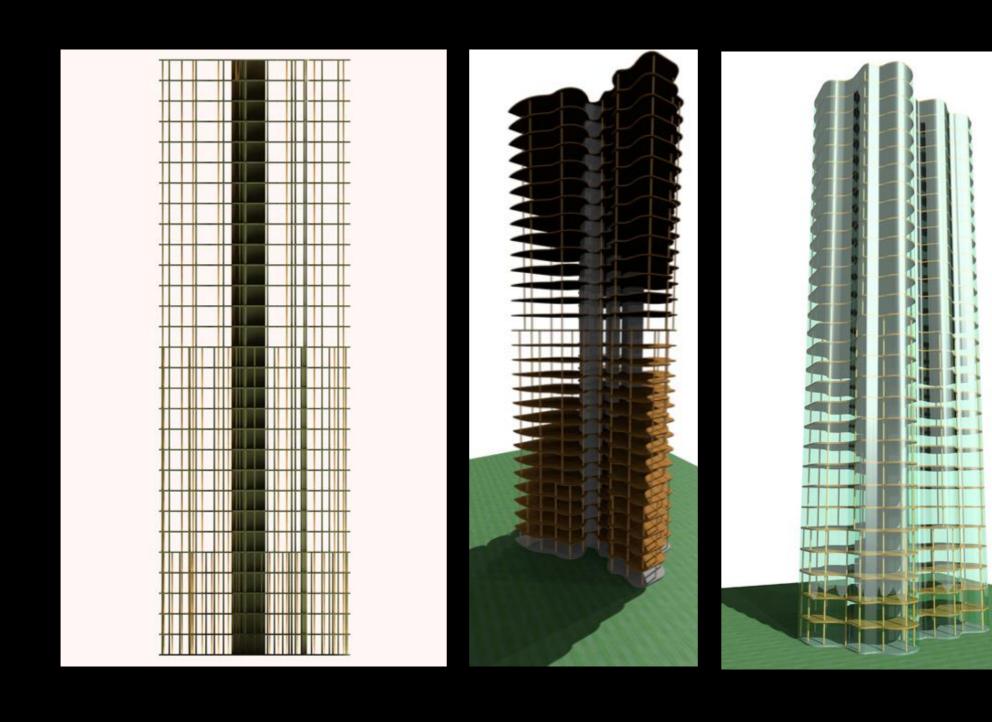
international concerns over rapidly accelerating climate change & the scale & nature of extraction processes demands a paradigm shift in the way we conceive buildings & cities

the first tall solid timber building





engineers taking wood even further upwards



urban conditions favour timber structures





bridport house



built over victorian sewers



40 metre clt tower, portland, oregon



12 storey framework of clt & glulam

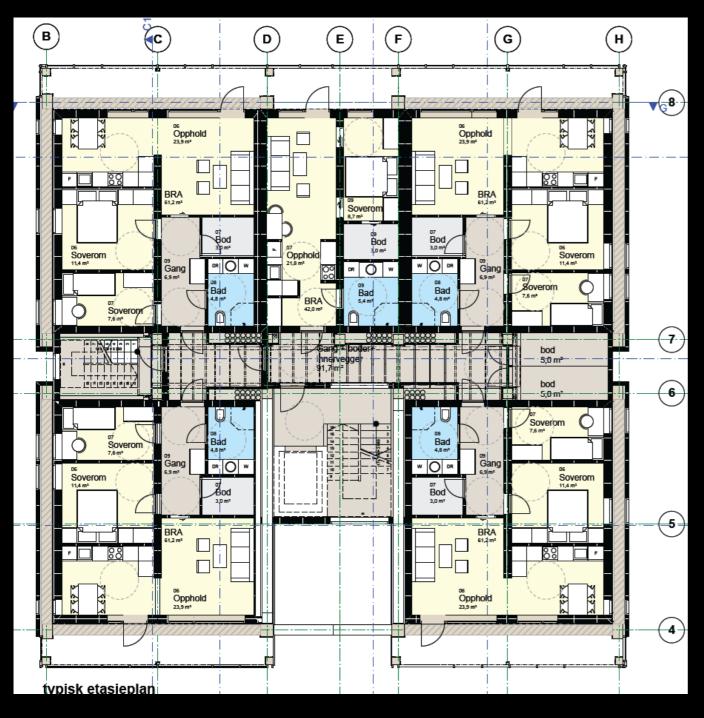


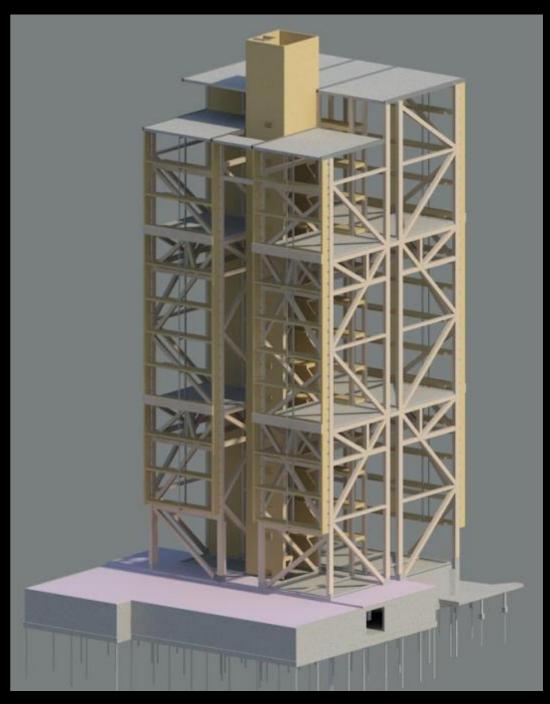
14 storeys in bergen



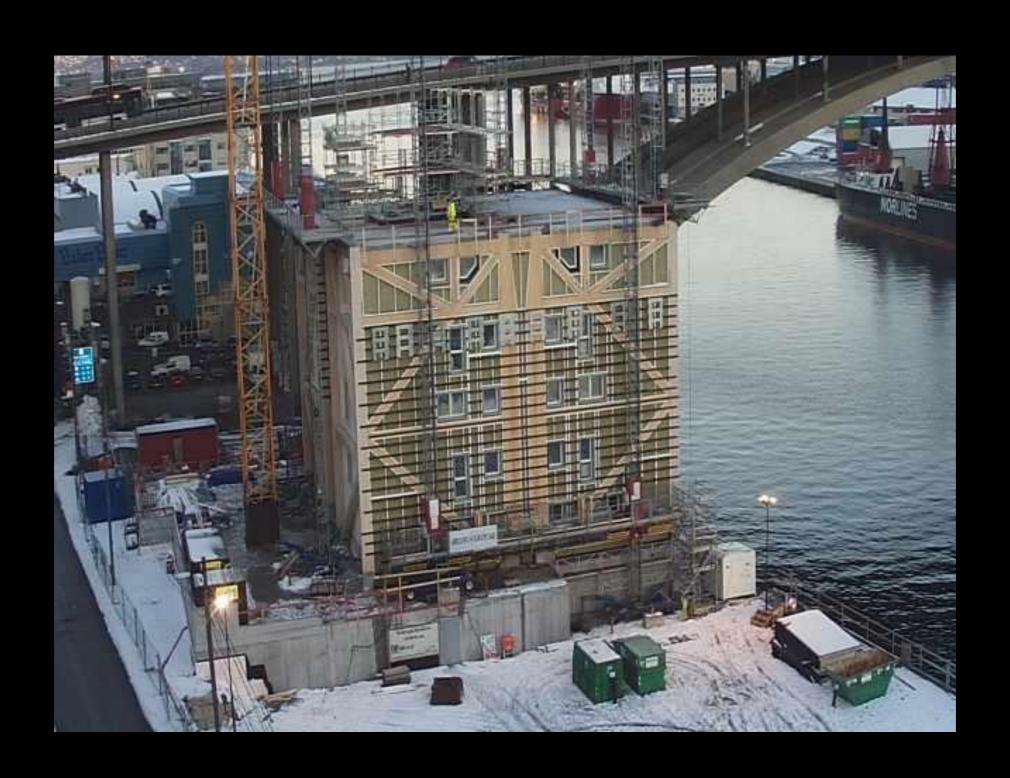


truss structure & prefabricated units





units transported on container ships



a rationale for tall timber structures

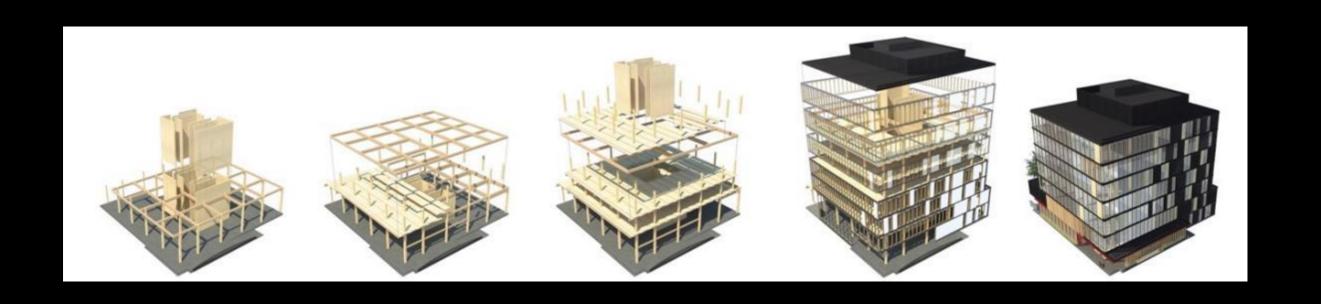
"In British Columbia we grow trees that are 30 storeys tall – why shouldn't we have timber buildings this high?"

Michael Green, architect

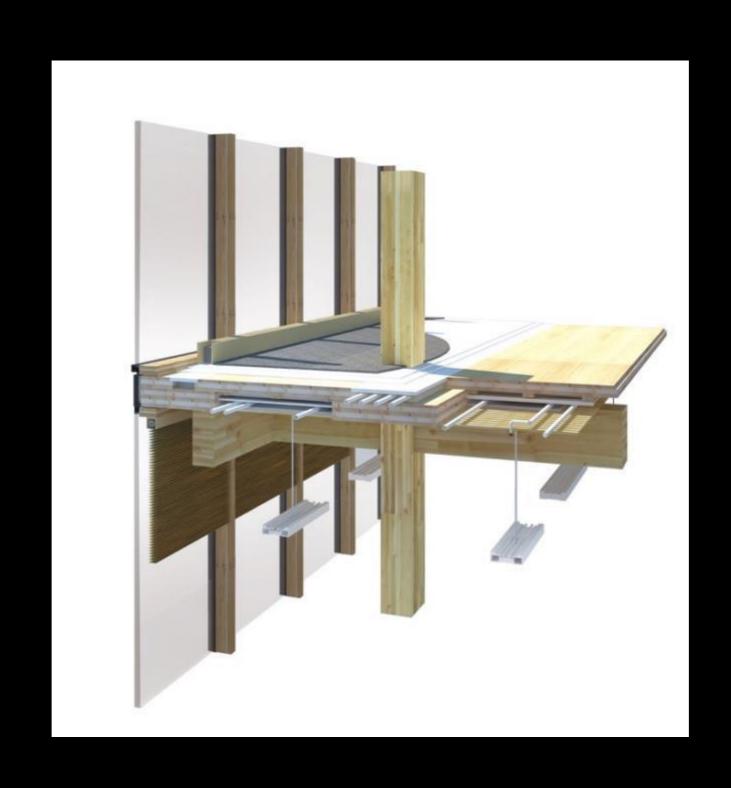
tallest timber building in north america



hybrid of glulam and cross-lam



integrated structure, services & sound control



35 storey 'baobab' tower, paris



30 storeys in vancouver

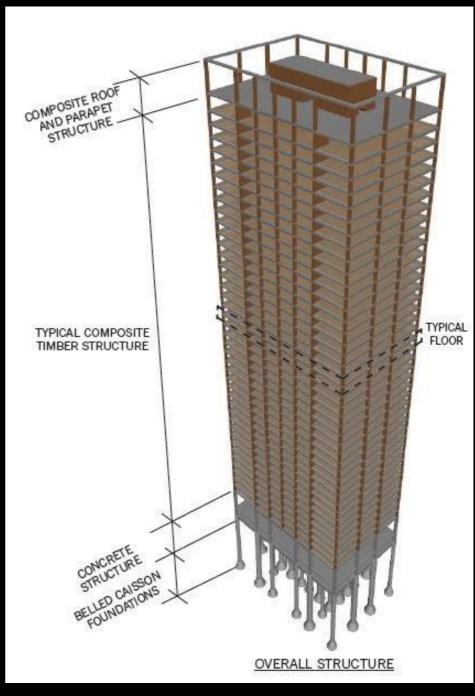


34 storeys in stockholm



42 storey hybrid – wood with concrete connections





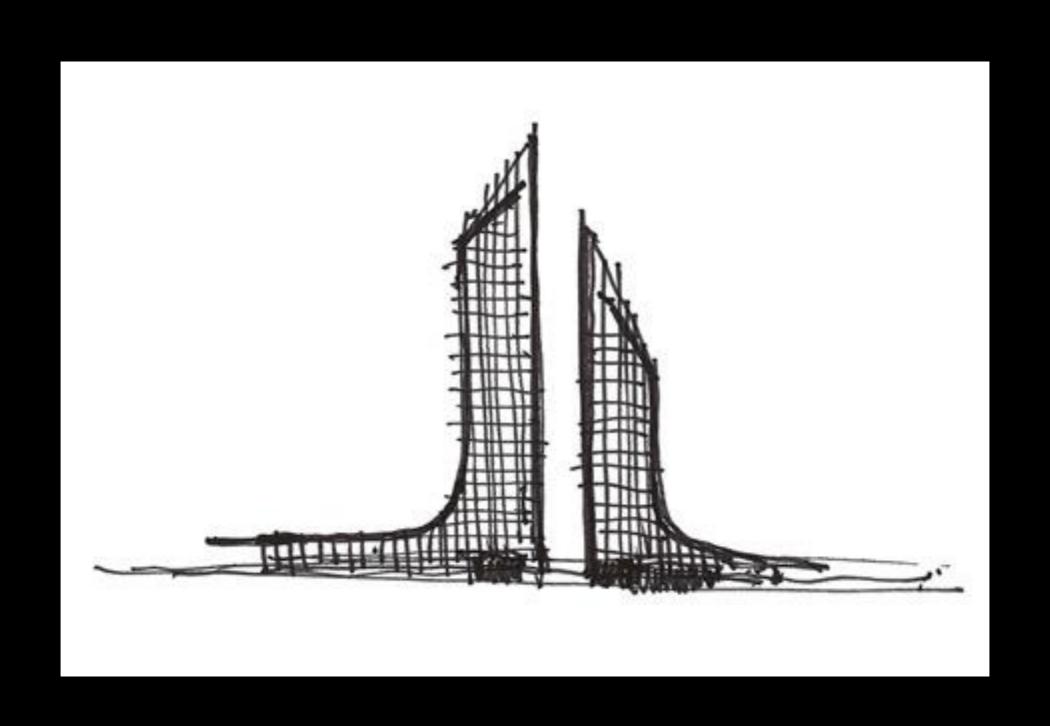
and back to London this week: 80 storeys, timber structure



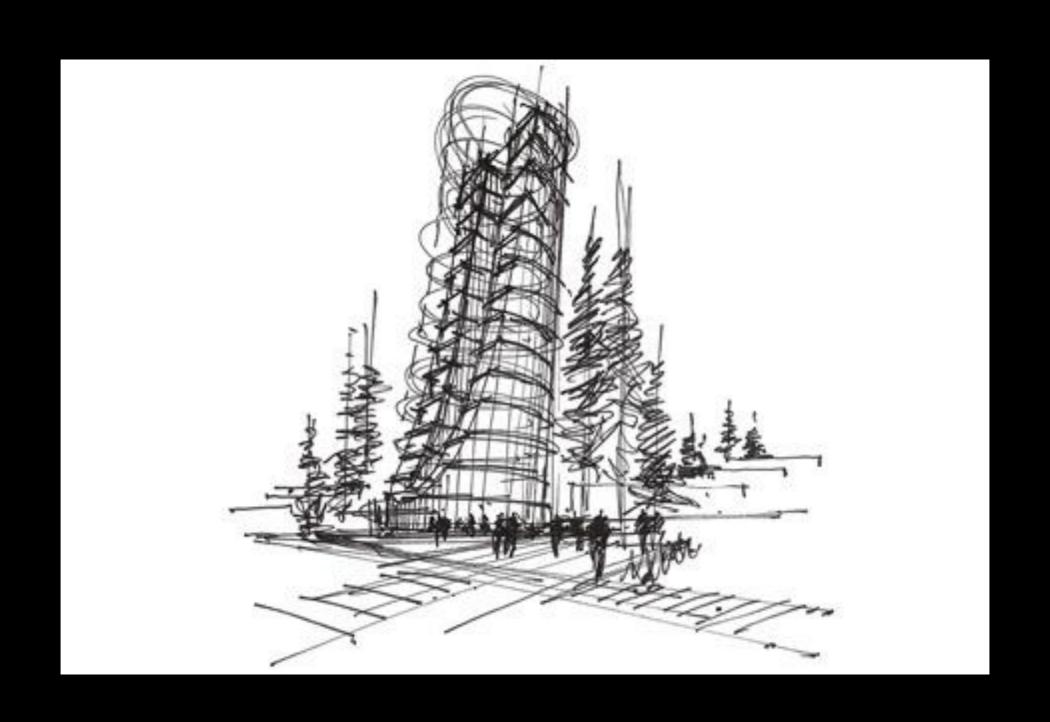
the vertical timber city



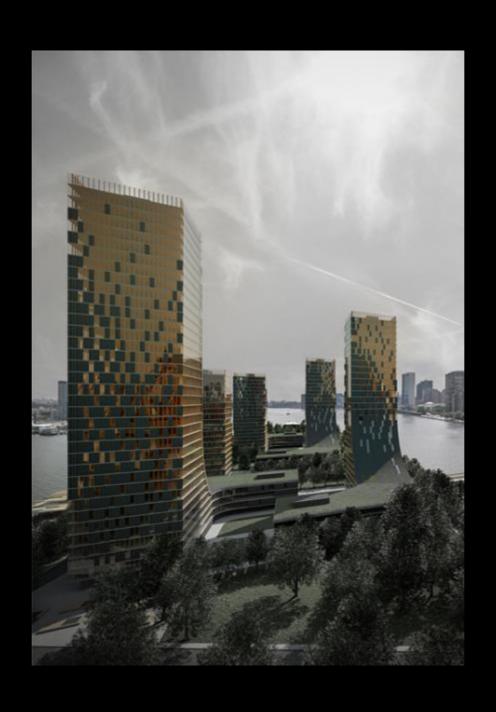
creating timber cities



moving beyond the orthogonal



to autarkic city districts



Ivl at urban scale



the largest timber building in the world



placemaking with wood



exhibitions provide opportunities for innovation



French pavilion, Milan Expo 2015



x-tu architects



parametric modelling



prefabrication of multiple unique elements



precision & rapid erection & dismantling



An Ceann Mor



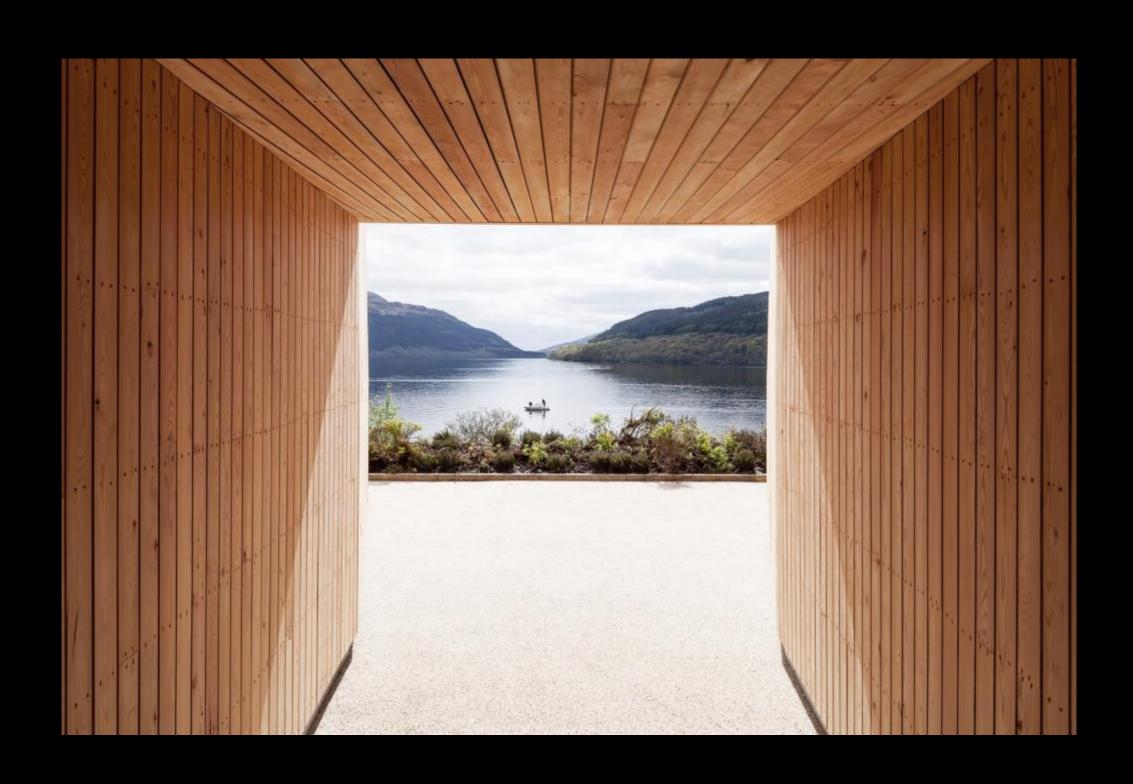
scottish scenic routes



testing ideas and materials - and talent



landscape & wood: natural partners



visually striking use of wood

