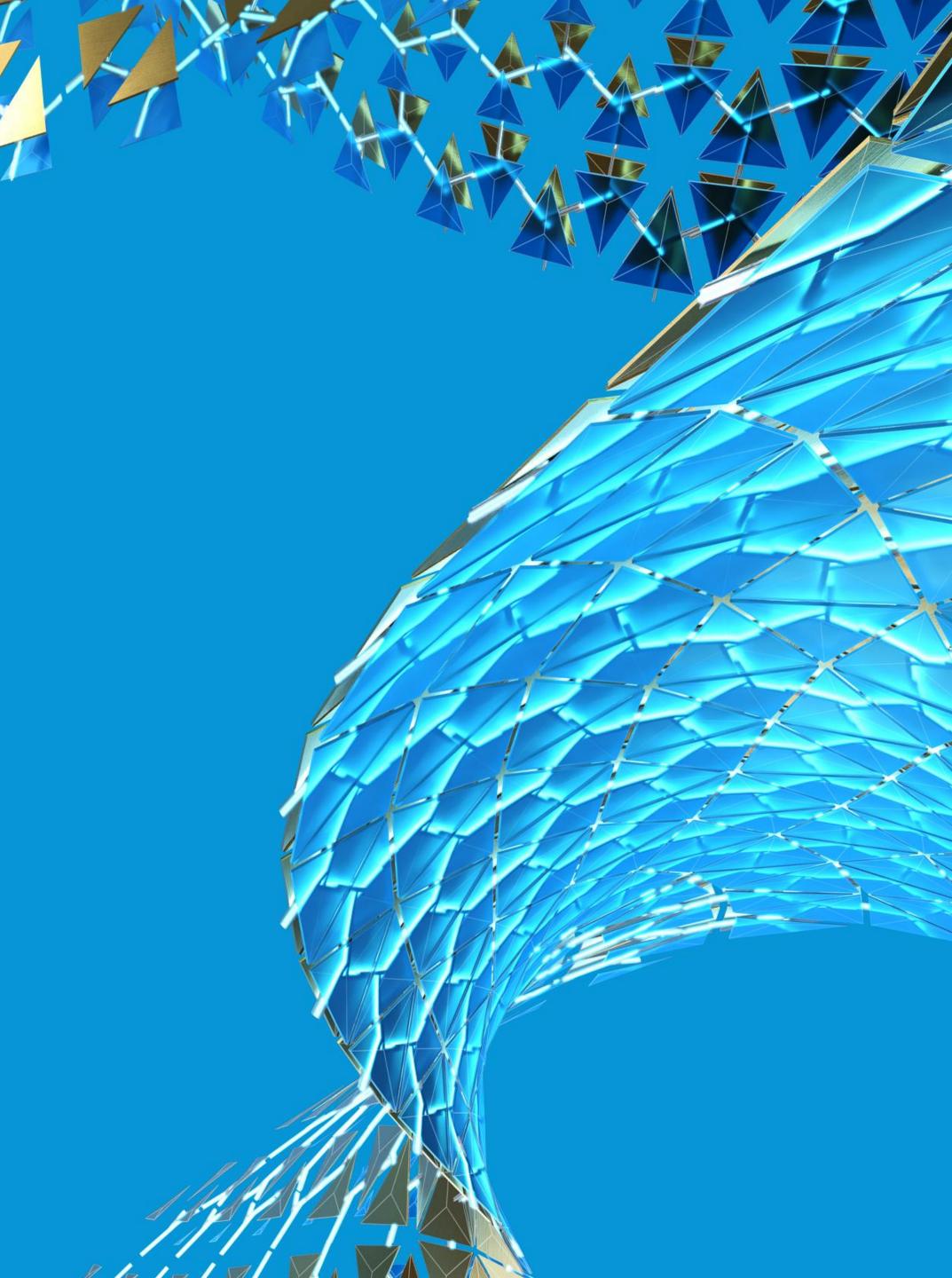


Alias and VRED for Heavy Machinery Design

Mike Turner

Senior Industrial Designer

DG Design



INTRODUCTIONS

Mike Turner – Career Bio



• 2020

• 86-92	Voluntary placements at JCB as Industrial Designer throughout GCSE & A Level – meets Gary Major
• 92-96	Coventry University – Transportation Design BA (Hons)
• 1997	Adtranz (Bombardier) – Senior Designer, Learns Alias whilst working in Berlin.
• 2001	Renfrew Group - Design Consultancy. (Triumph Daytona & Flymo surfacing)
• 2002	Joins JCB – Introduces 3D Industrial Design workflow (Alias) to organisation. Digital development expands, as does capacity – all
	product range covered, including JCB Dieselmax land speed car.
• 08-10	MT Freelance – VW, Bloodhound SSC, Nokia, HotWheels, Terex, Triumph, IVT etc
• 2010	MT Rejoins JCB
• 2011	GM leaves JCB to set up LiuGong UK Studio - MT promoted to JCB Global Head of Design.
• 11-16	MT development of JCB Innovation Centre & ID studio: collaborative working, advanced visualization, digital stakeholder reviews,
	rapid prototyping, ergonomics & HMI - Full product range & NPI process overhaul – disruptive innovation. (Hydradig)
• 2016	MT joins DGESIGN – Transportation Design consultancy with Rail bias. (DG prior colleague of GM)
• 2017	MT & GM re-establish working partnership - Alias definition and vRED visualisation.

Red Dot Design Award - Product Design winner (LiuGong Dressta TD-16N)

DGDESIGN – Brief history



DAVID GORDON DESIGNER DIRECTOR



JON WOODWARD SENIOR DESIGNER

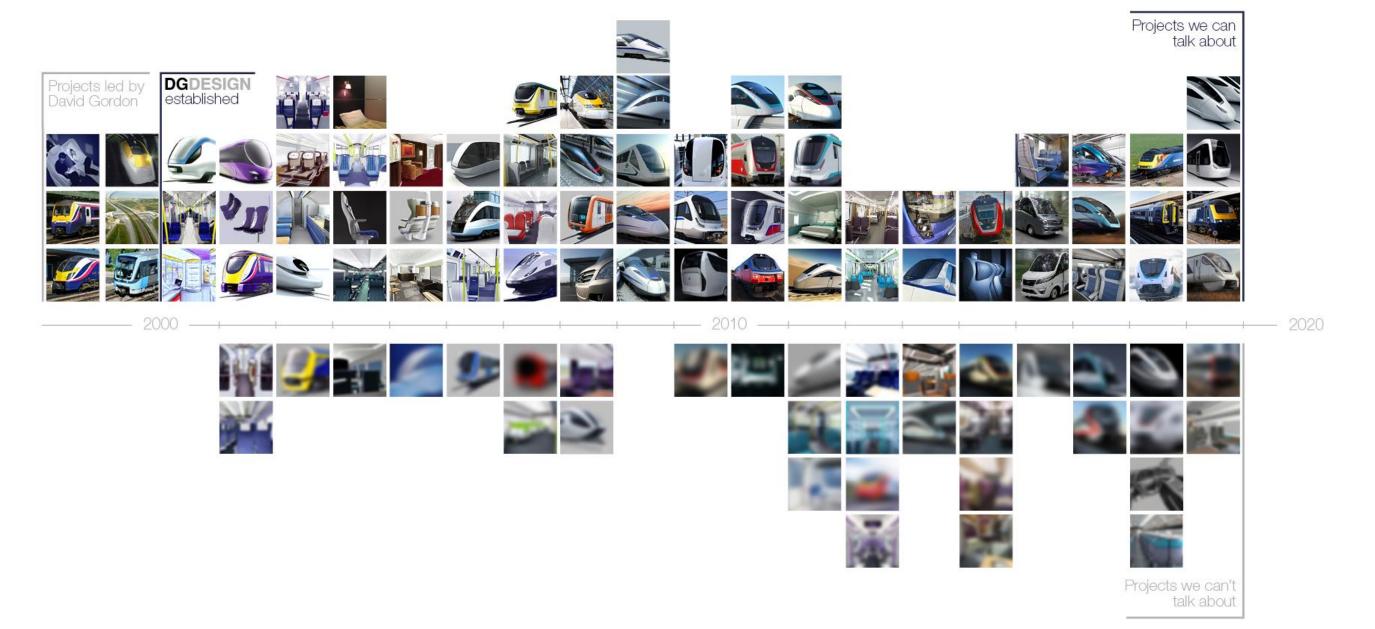


MIKE TURNER SENIOR DESIGNER



ANDY SYKES SENIOR DESIGNER

- Est. 2000 by David Gordon (Former work Colleague of both Gary and Mike from Rail Industry)
- Transportation design specialists (Passenger Rail Vehicles, Bus and Coach, Off Highway Machinery, Commercial vehicles.)
- Four creatives; 80+ years of combined design experience
- UK based but operating globally
- A proven record of delivering successful, award-winning projects for leading transport businesses around the world.
- Established Autodesk users Alias, vRED (visualization, animation and VR) and 3DStudio Max



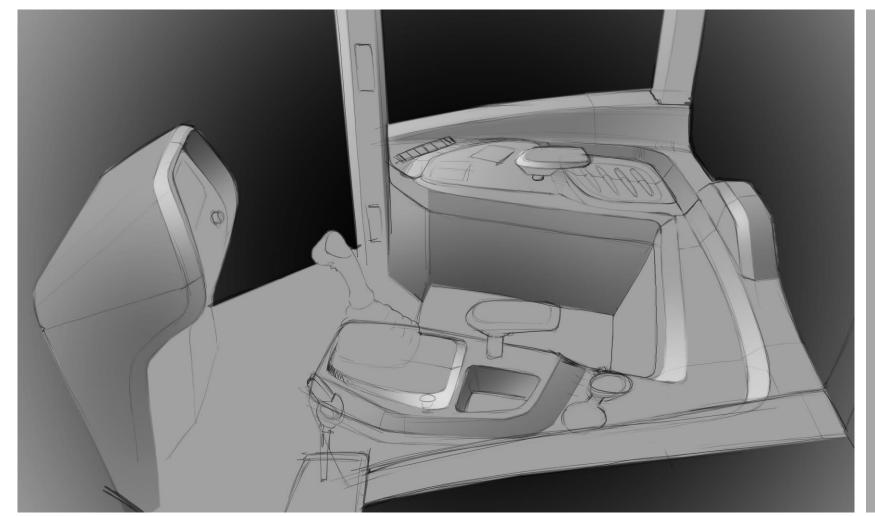
Research and Analysis | Concept Design | Design Development | Design Delivery |
Manufacturing Support

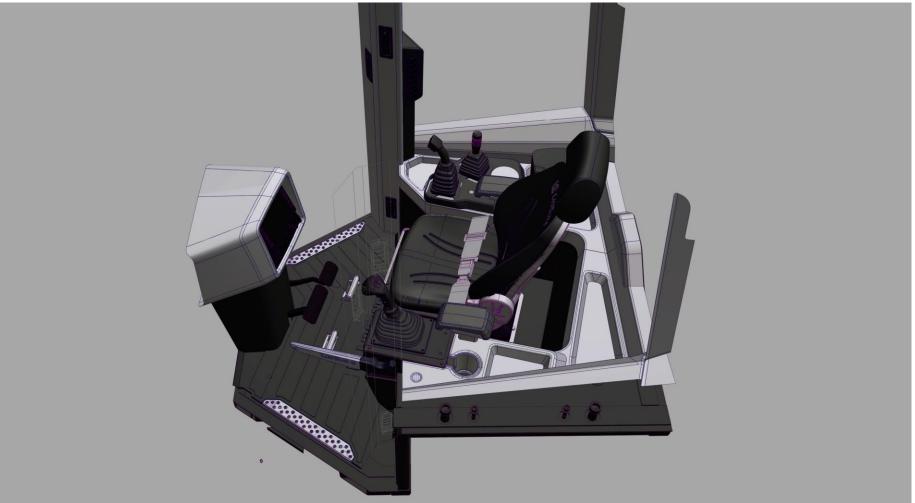


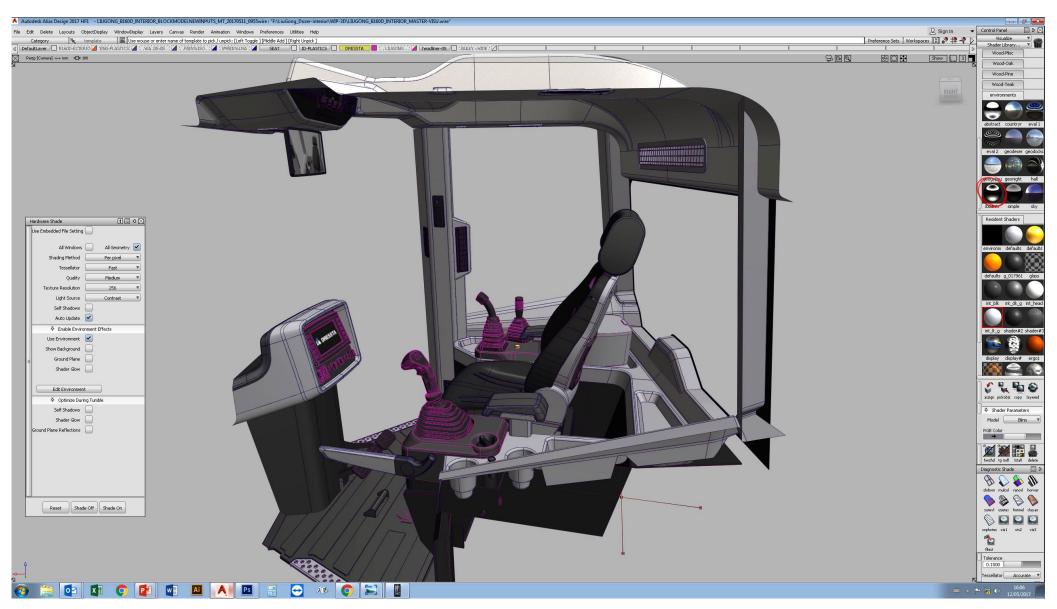
B170D / TD25 — Concept Definition

2017

B170D / TD25 - interior concept definition (2017)







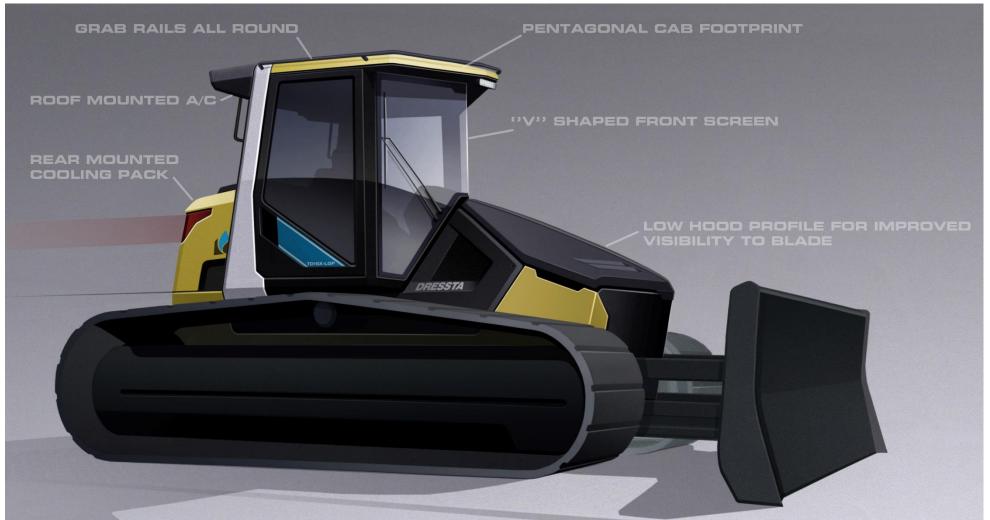


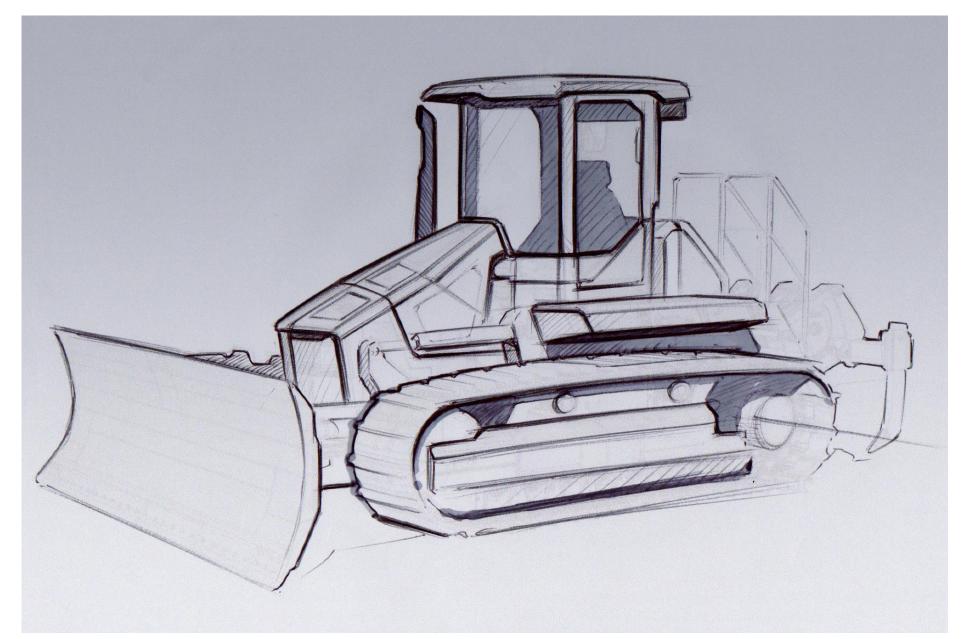
Mid Cab — Concept Definition

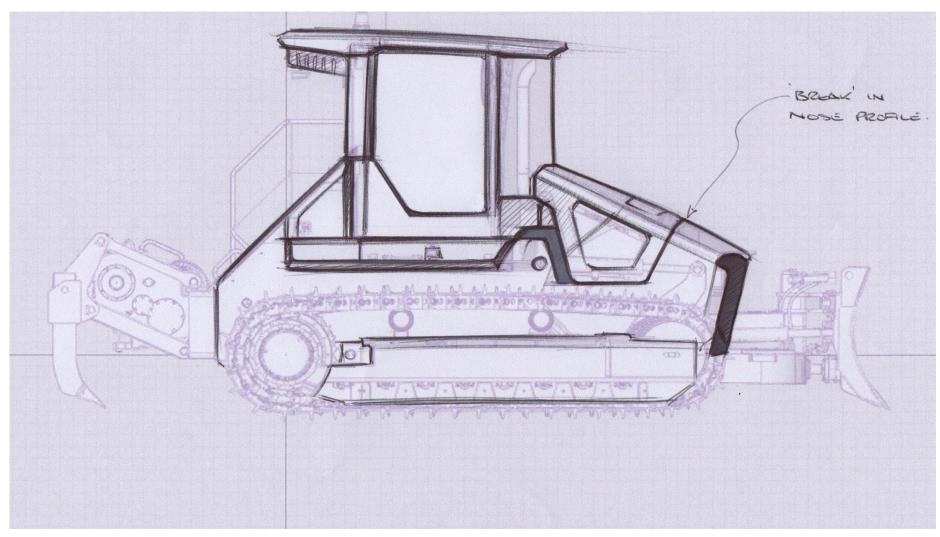
August – October 2018

Mid Cab concept – exterior preliminary sketches overview – 2018

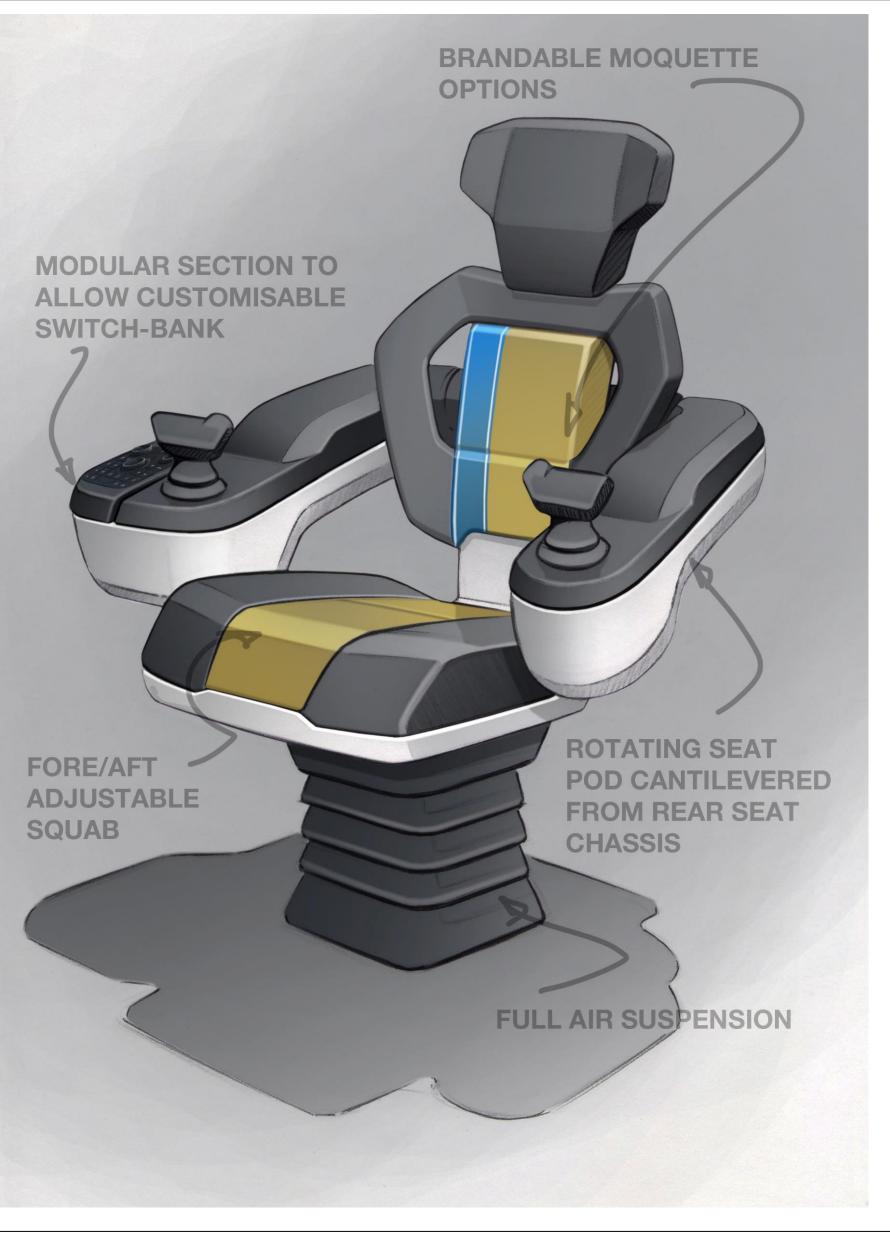


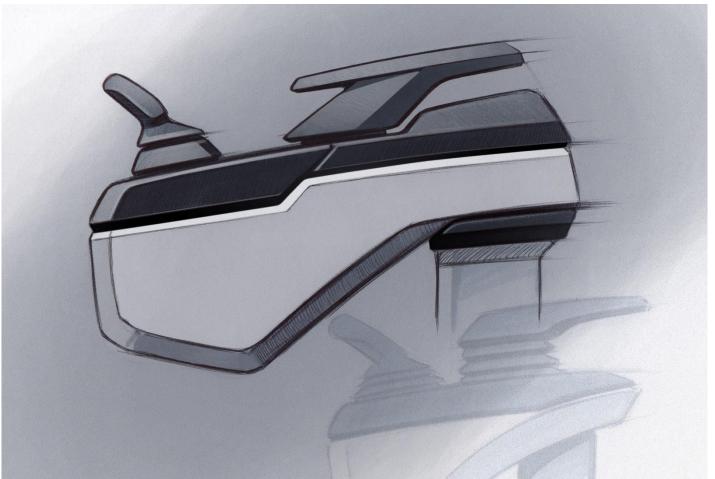


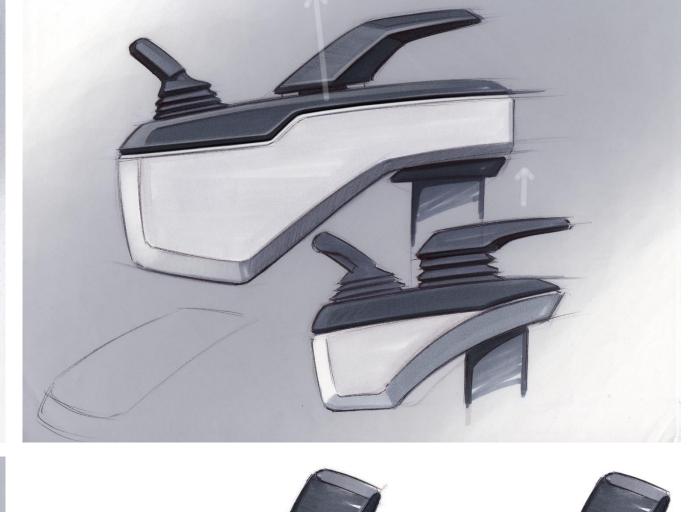


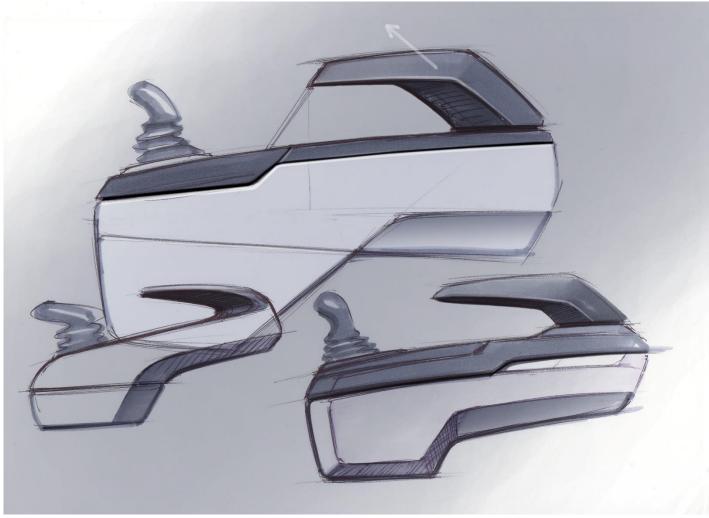


Mid Cab concept – interior preliminary sketches overview – 2018





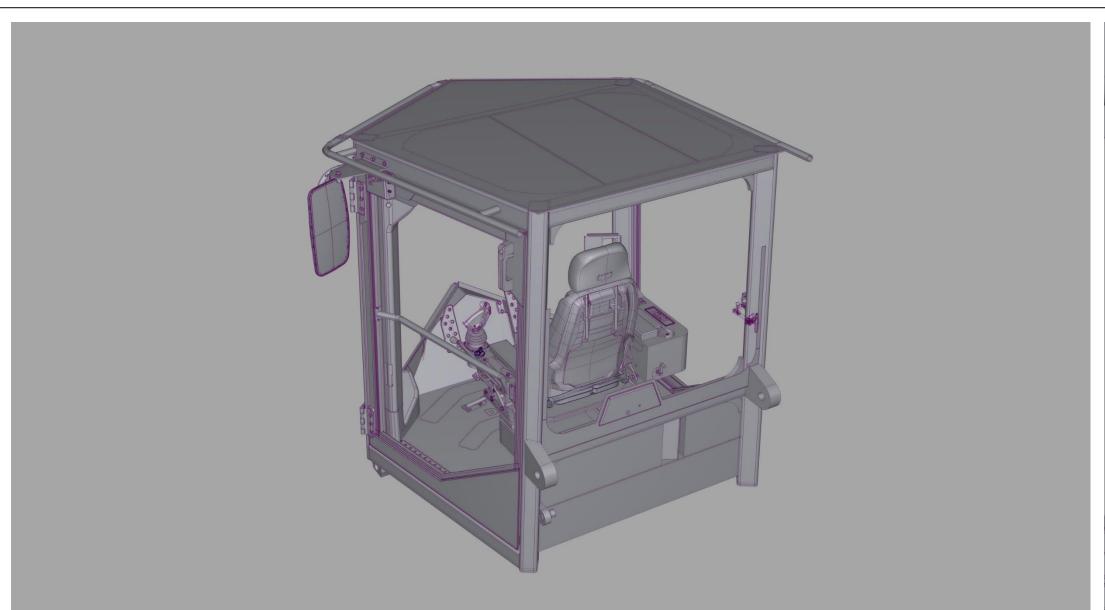


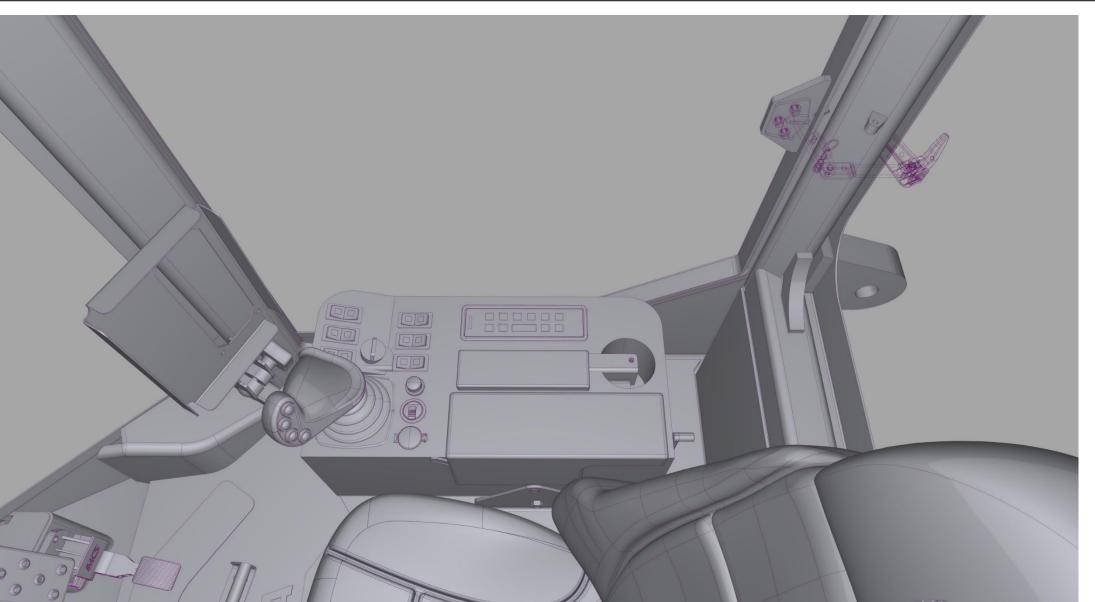


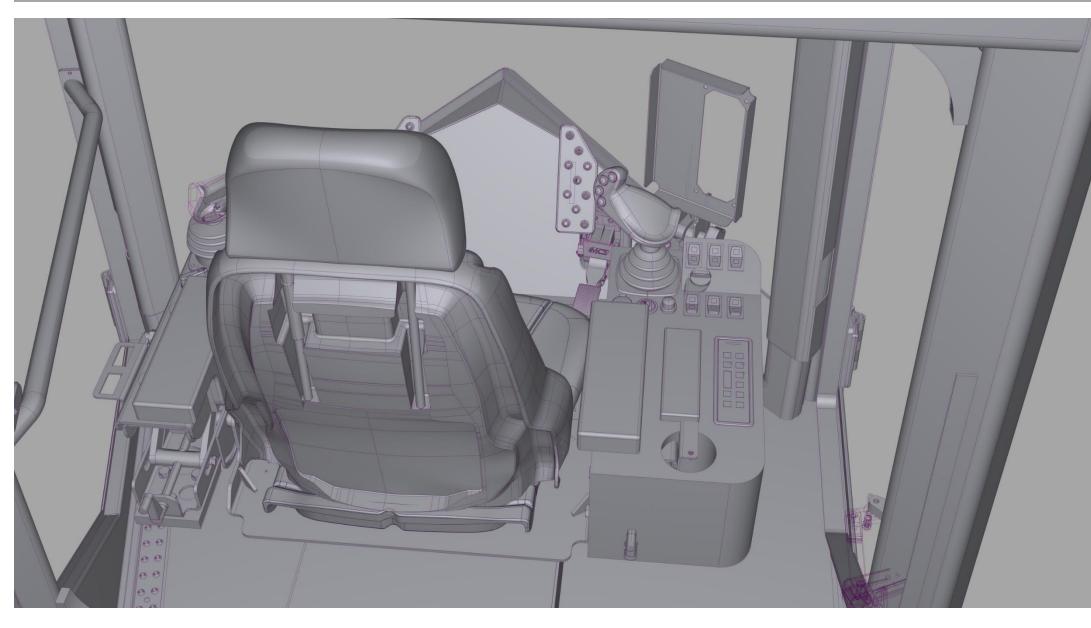


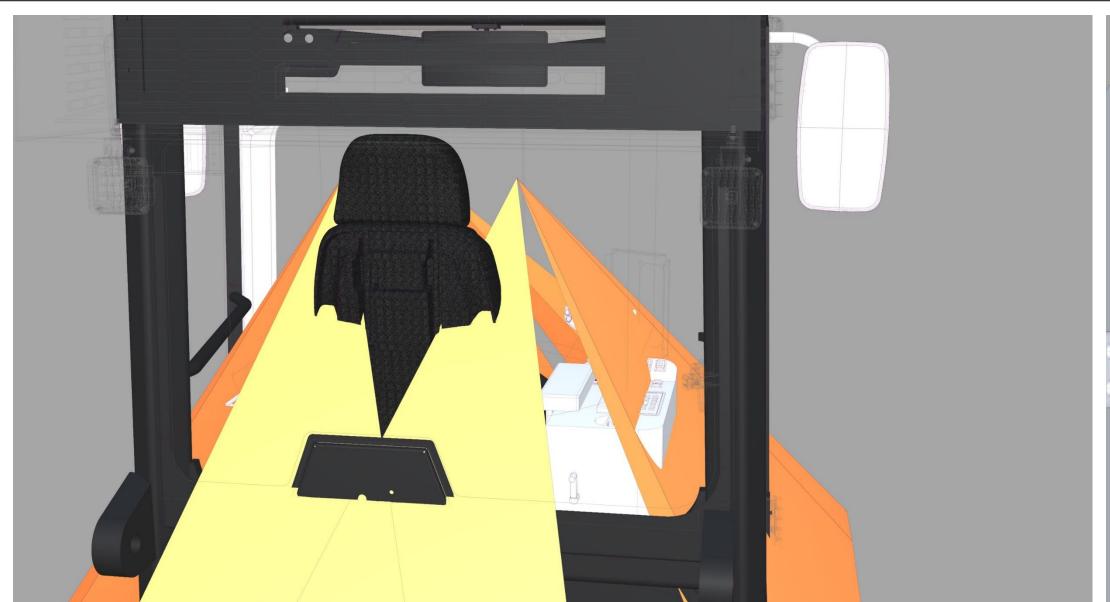
Mid Cab concept - interior definition 201

2018/07/08

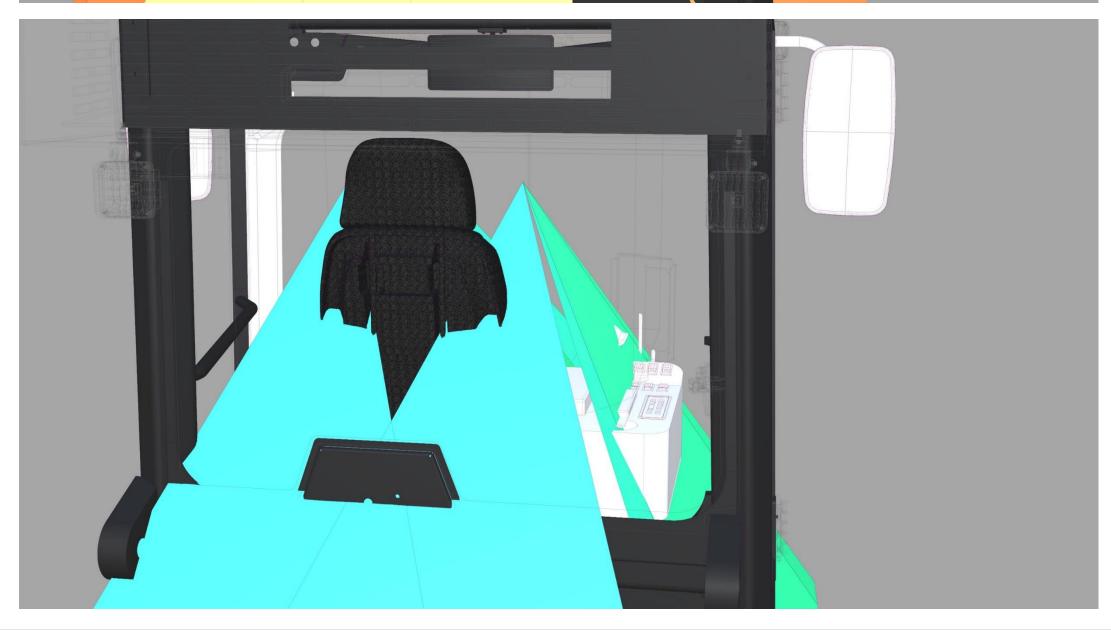


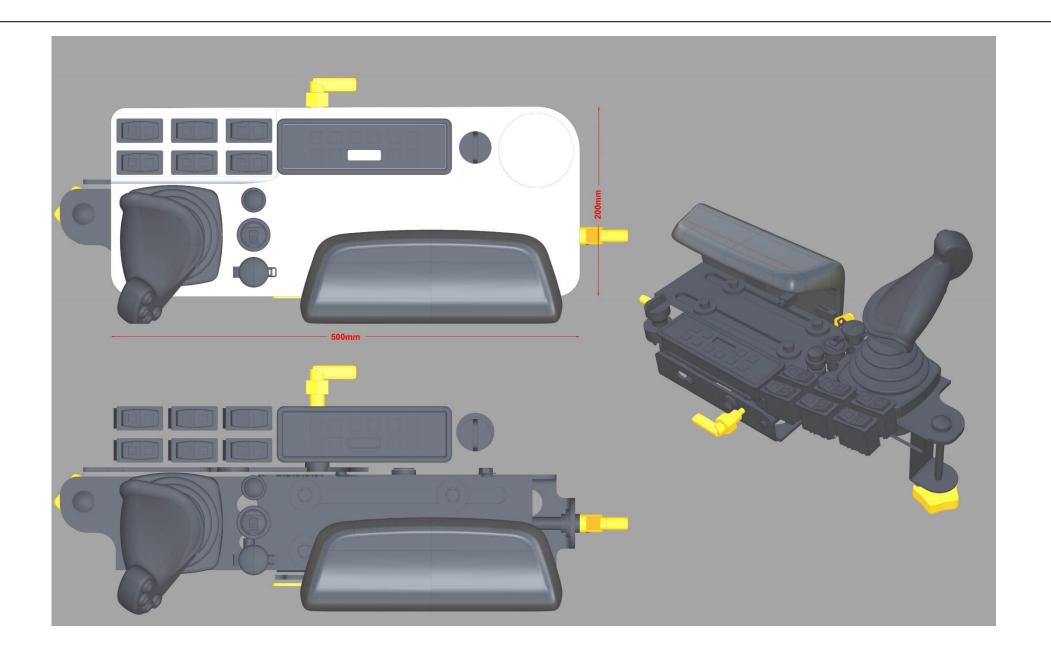


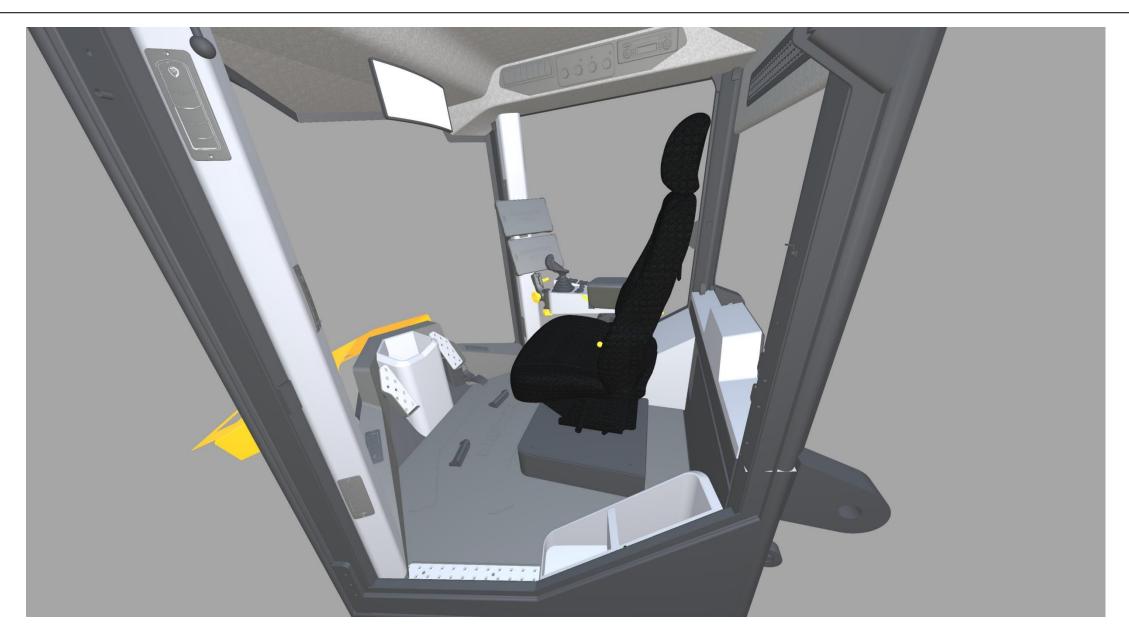


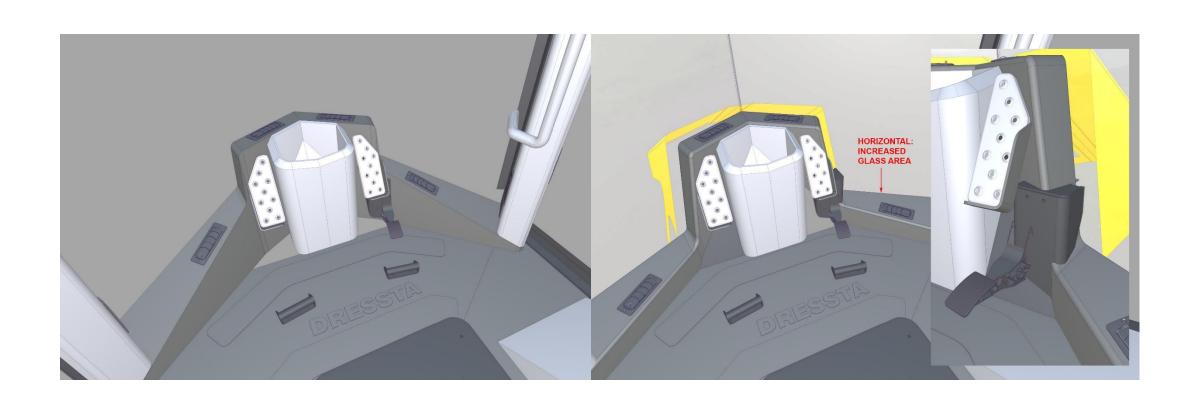


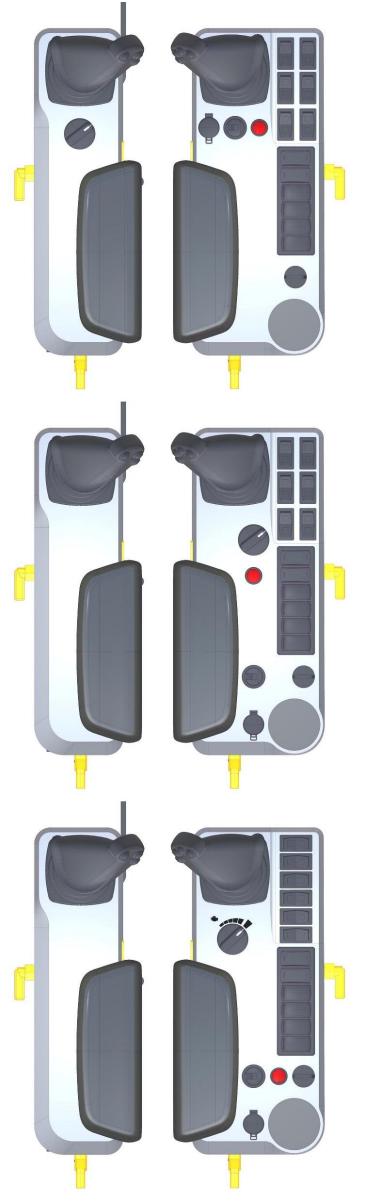












INITIAL CAD CONCEPT



Ed Wagner feedback:
"I think the horn near the key is nice since about the only time you use a horn on a dozer is when you start.

I can't remember ever using a horn on a dozer on a jobsite."

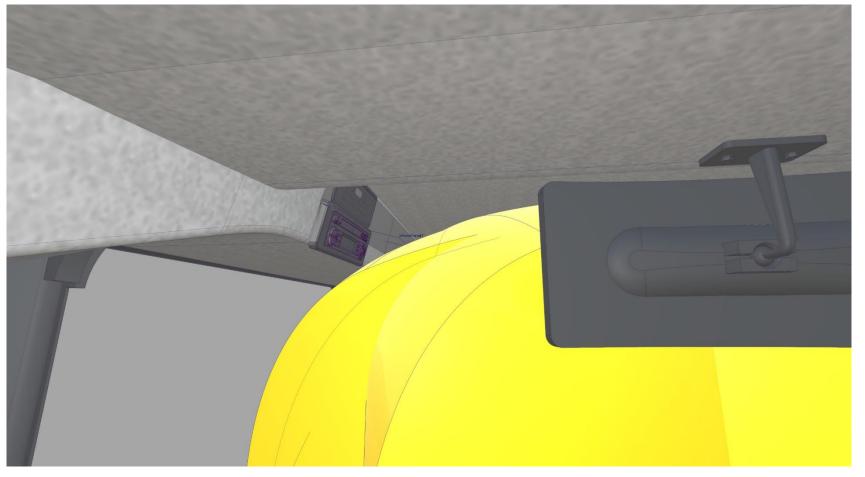


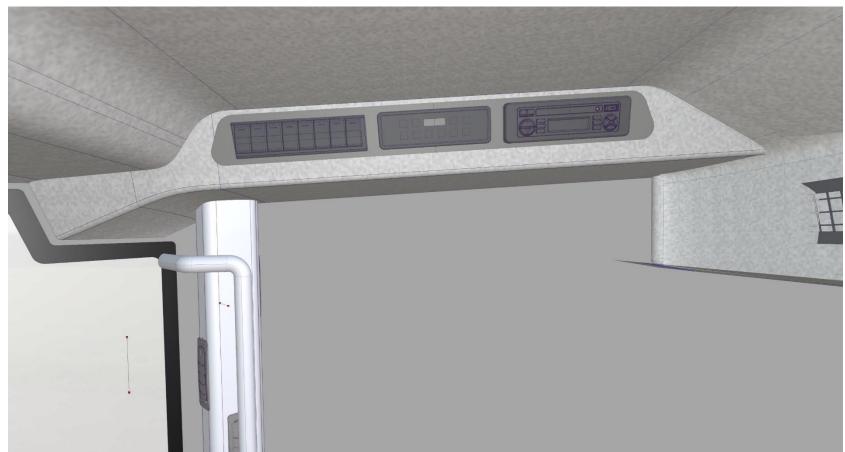
Horn moved to rear - adjacent to keys.

Space left clear for icons around engine RPM.

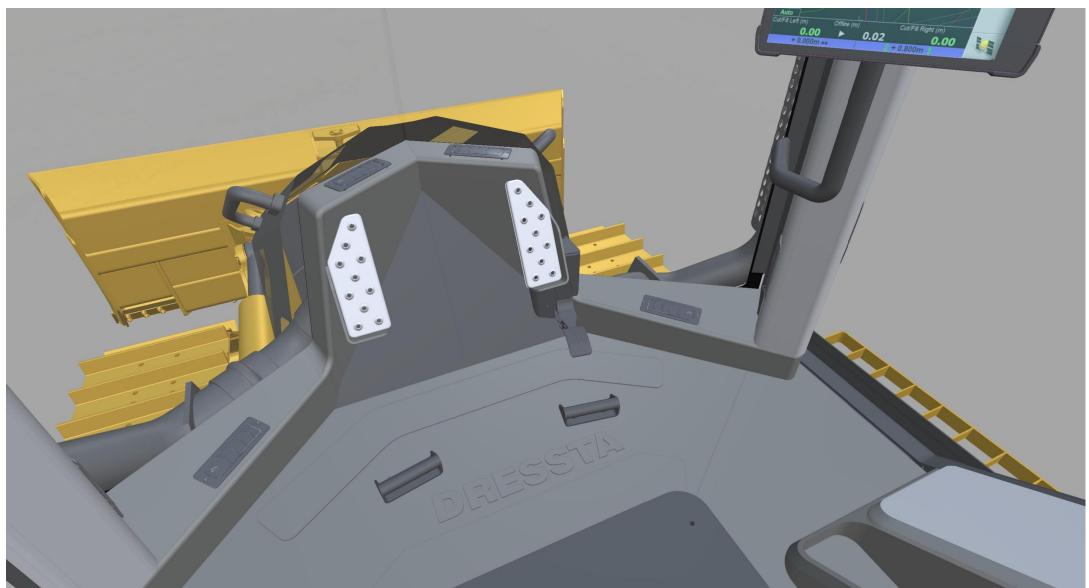
Could switches all be in same orientation?

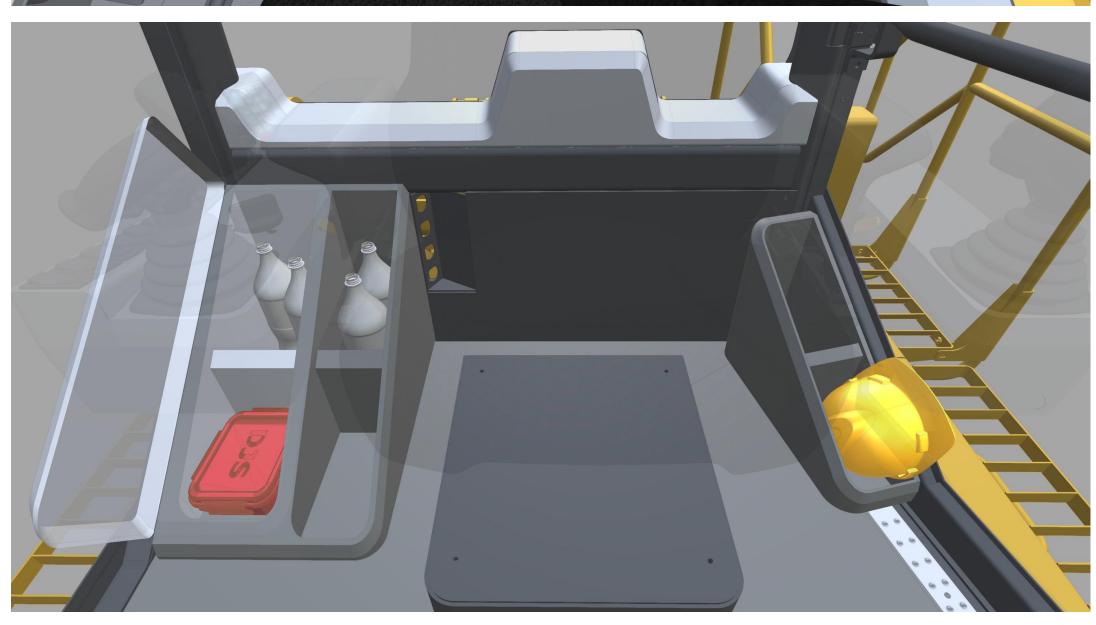
Shouldn't switches all be same type? (ones at front currently different to wipers)





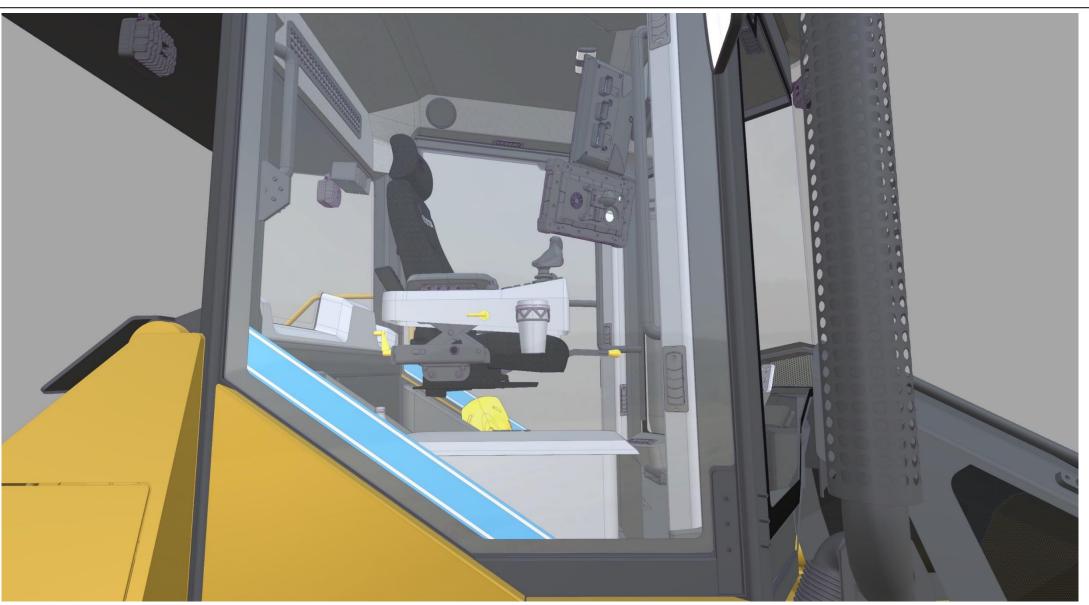










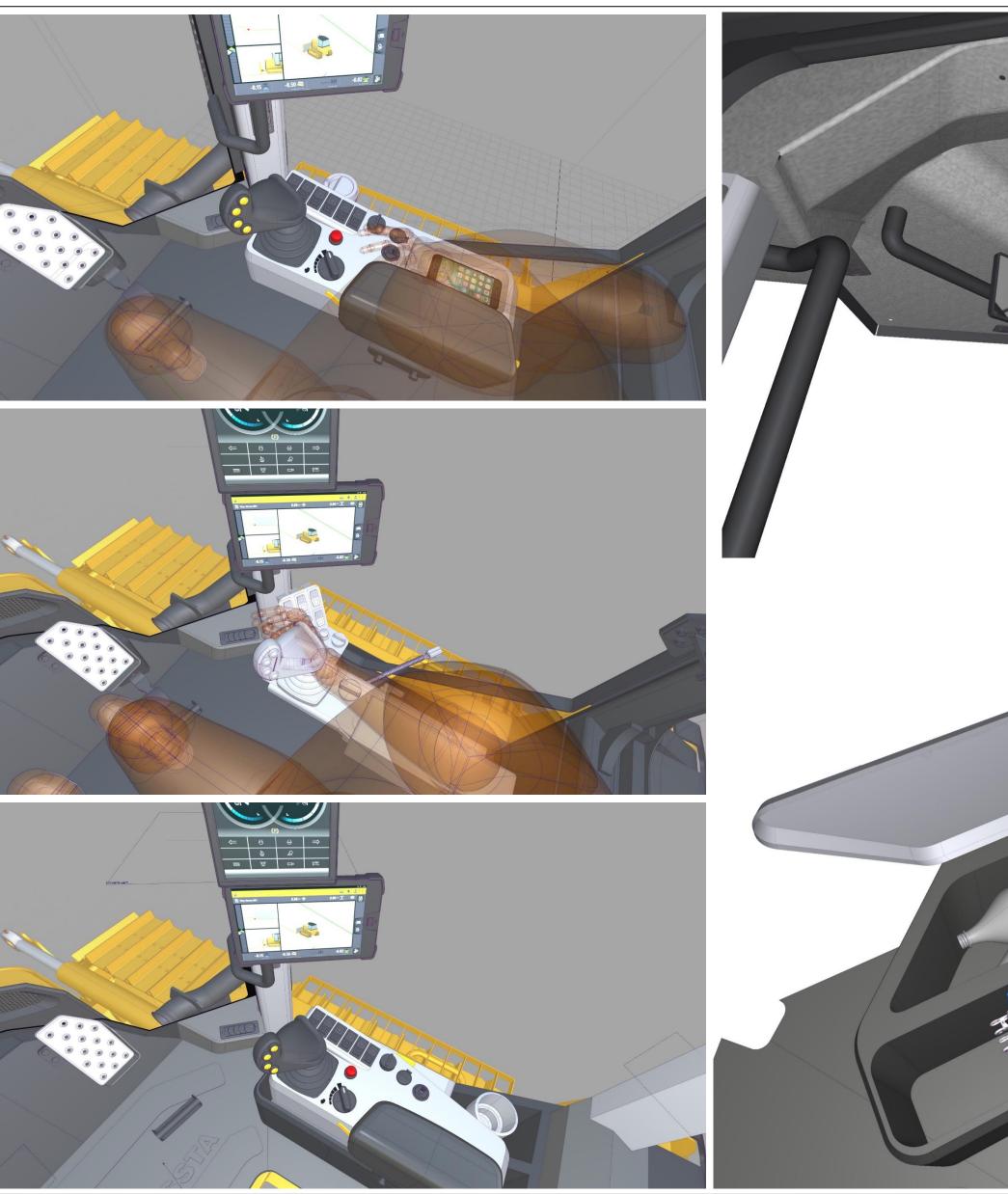


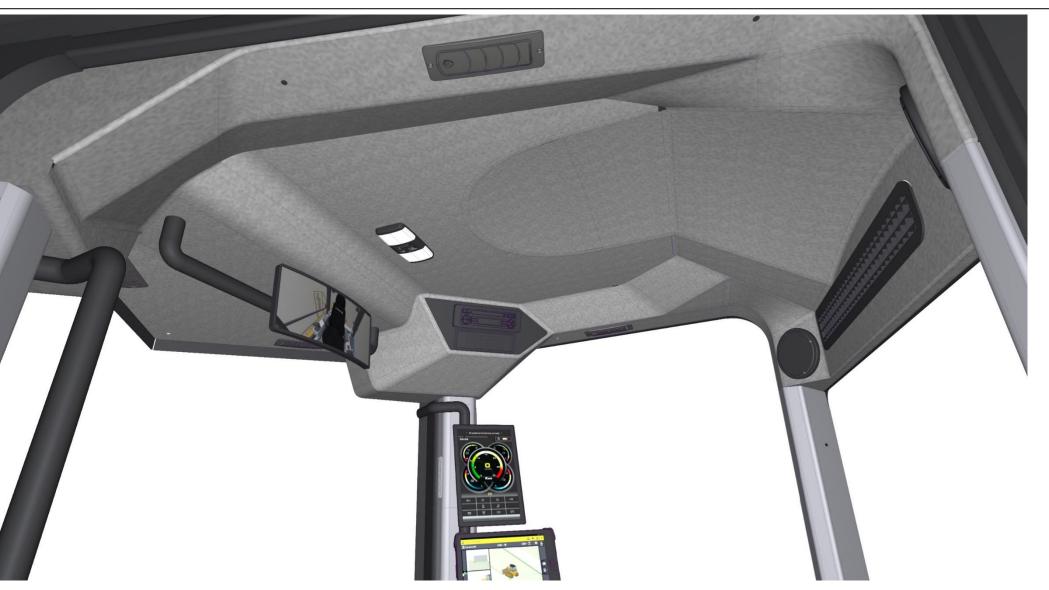


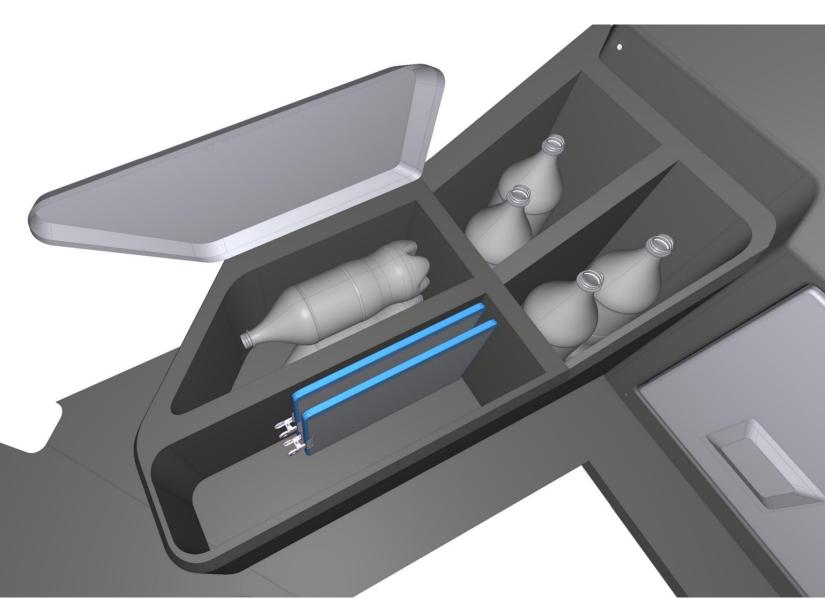


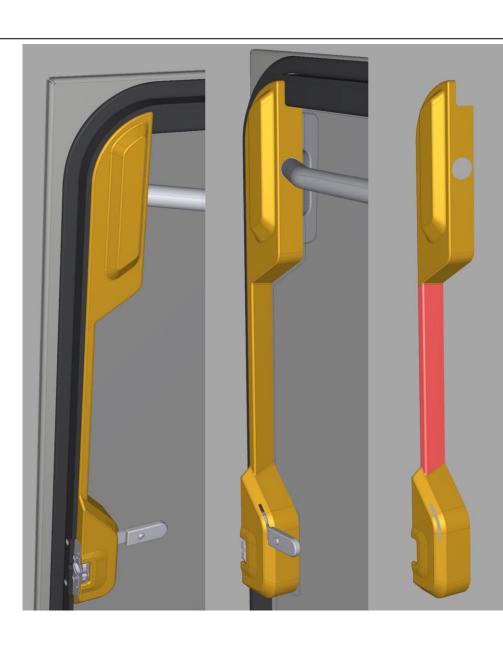
Mid Cab concept definition

August 2018





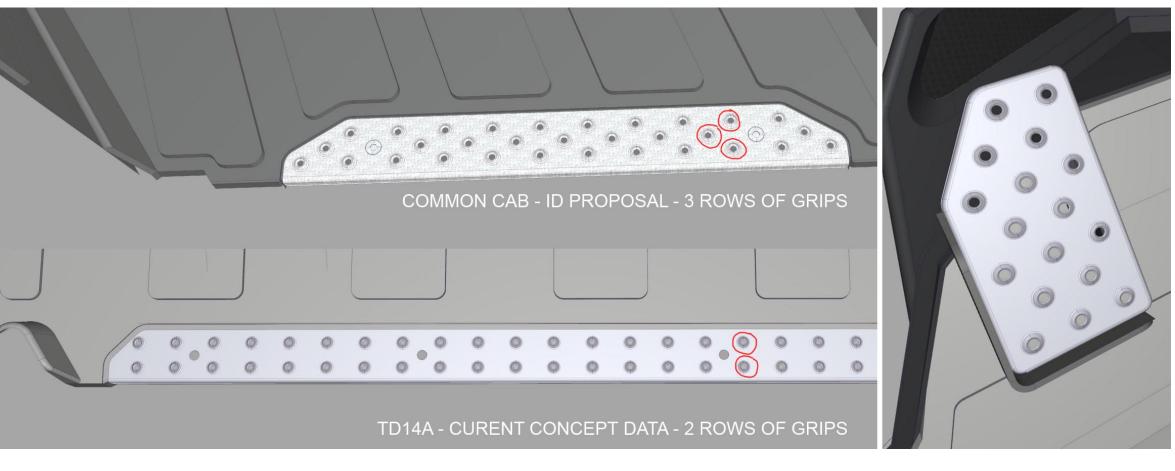




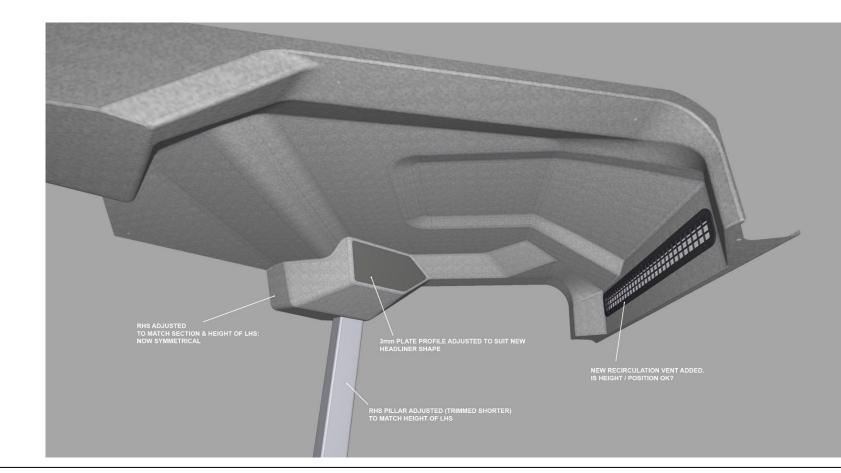
Mid Cab concept definition

September / October 2018





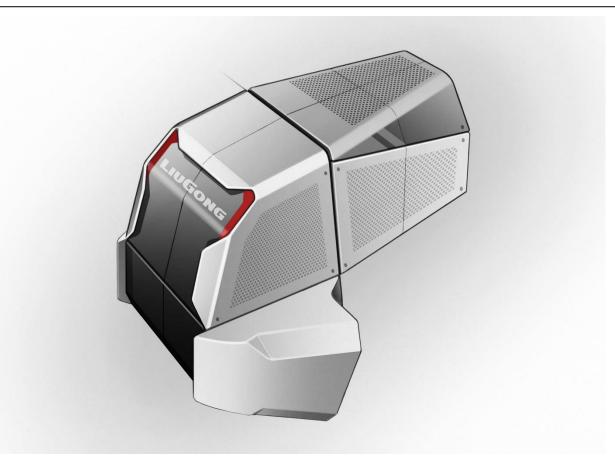




Ronnie & Reggie – Design & visualisation

January 2019

Ronnie & Reggie development – Jan / Feb 2019









Mid Cab — Visualisation

January / Feb 2020

Mid Cab development – Jan / Feb 2020











Mid Cab development – Jan / Feb 2020







Mid Cab development – Jan / Feb 2020



Thank you

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