KVORNING DESIGN KOMMUNIKATION

CONCEPT DEVELOPMENT

IDEA AND BRAINSTORM · VISUALIZATION · FUNDRAISING
BUDGET AND PROJECT MANAGEMENT · LOBBYING · COMMUNICATION AND PR

EXHIBITION DESIGN

PERMANENT, TEMPORARY AND TRAVELLING EXHIBITIONS · HANDS-ON · INTERACTION EXHIBITION SYSTEMS · SHOWCASES · DISPLAYS · SHOWROOMS · OUTDOOR · LOGISTICS

GRAPHIC DESIGN

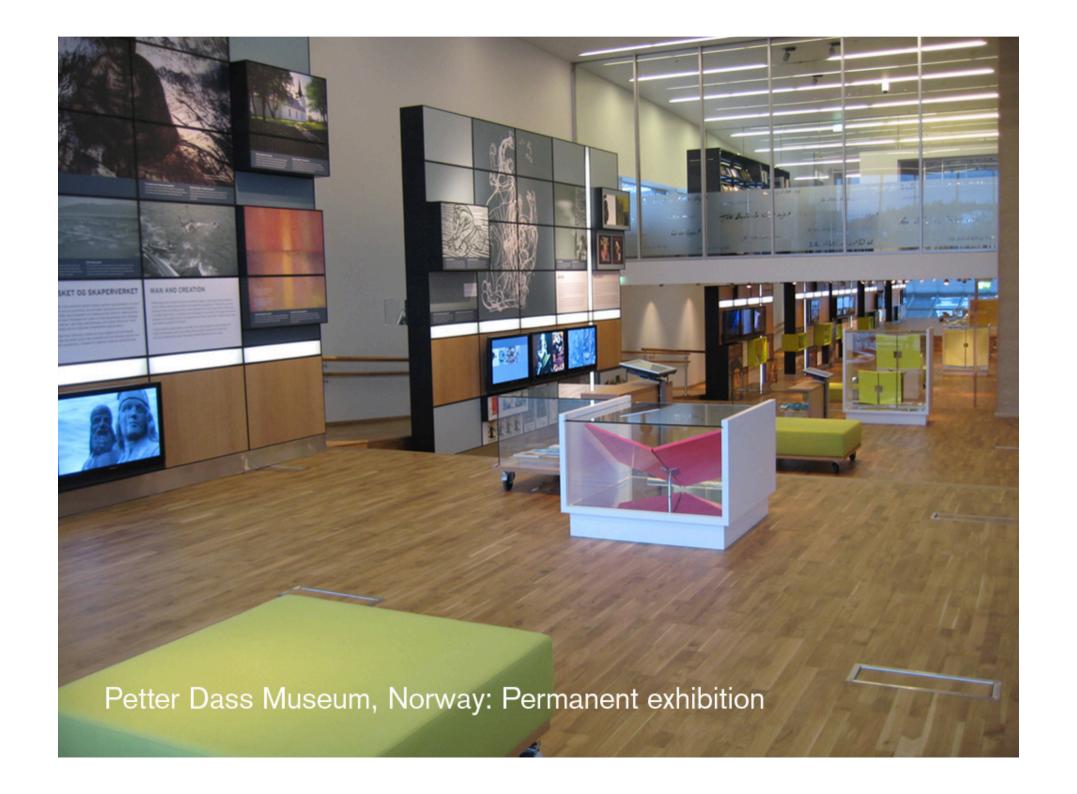
VISUAL IDENTITY · LOGOS · POSTERS · CATALOGUES · PACKAGING · WEB PAMPHLETS · BOOKS · ILLUSTRATION · MOVING GRAPHICS · SIGNAGE · CD/DVD

INTERIOR DESIGN

FURNITURE · SHOPS · SHOWROOMS · LOUNGES
VISITOR CENTERS · RENOVATING · TRANSFORMATION · ARCHITECTURE

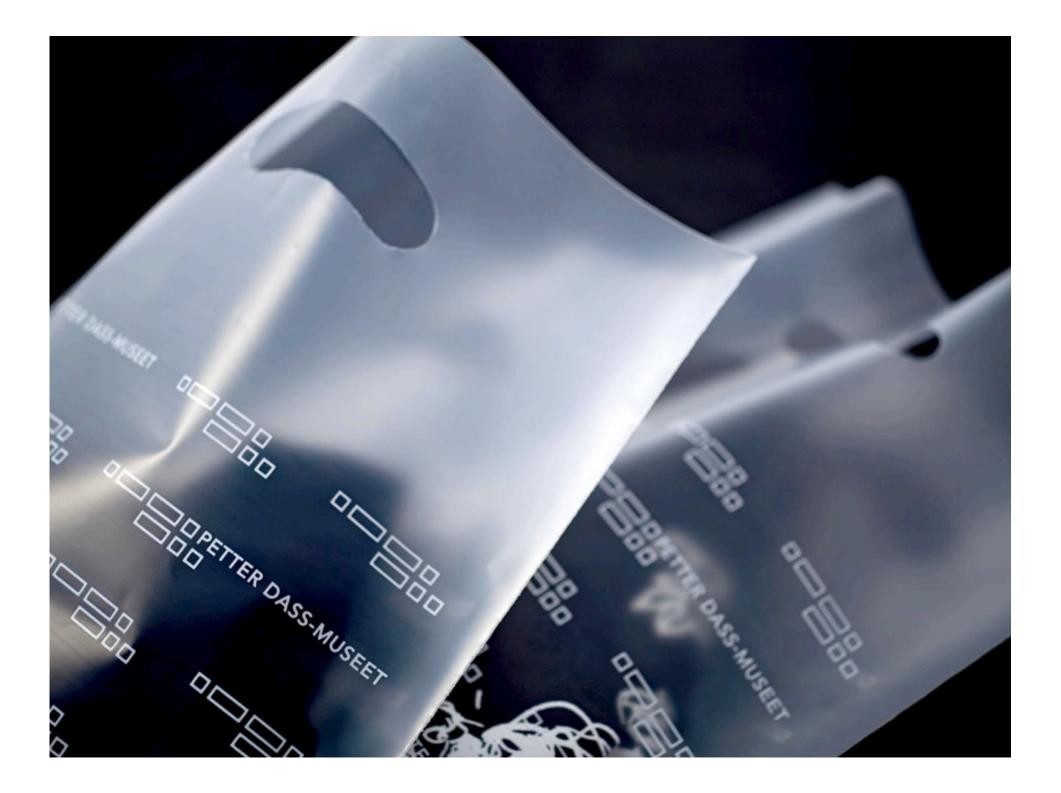
EXHIBITION SYSTEMS

WWW.BUGSYSTEMS.COM: BUG, BIG BUG, WALL BUG AND BUGSY
OUTPOST · SITE · SPACE · WAVE · SCREENY



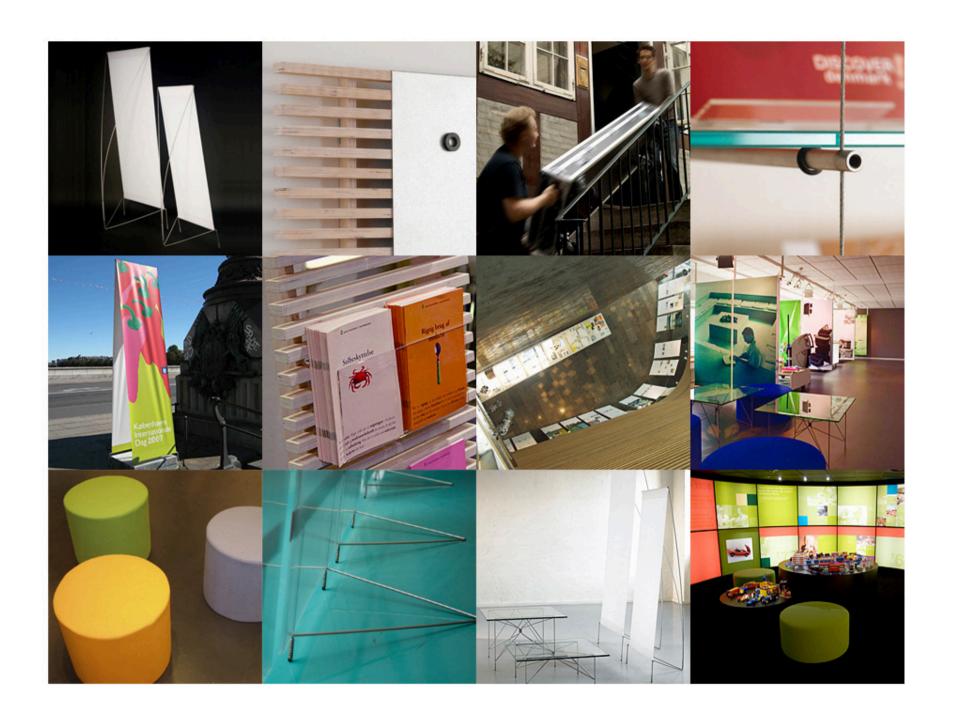


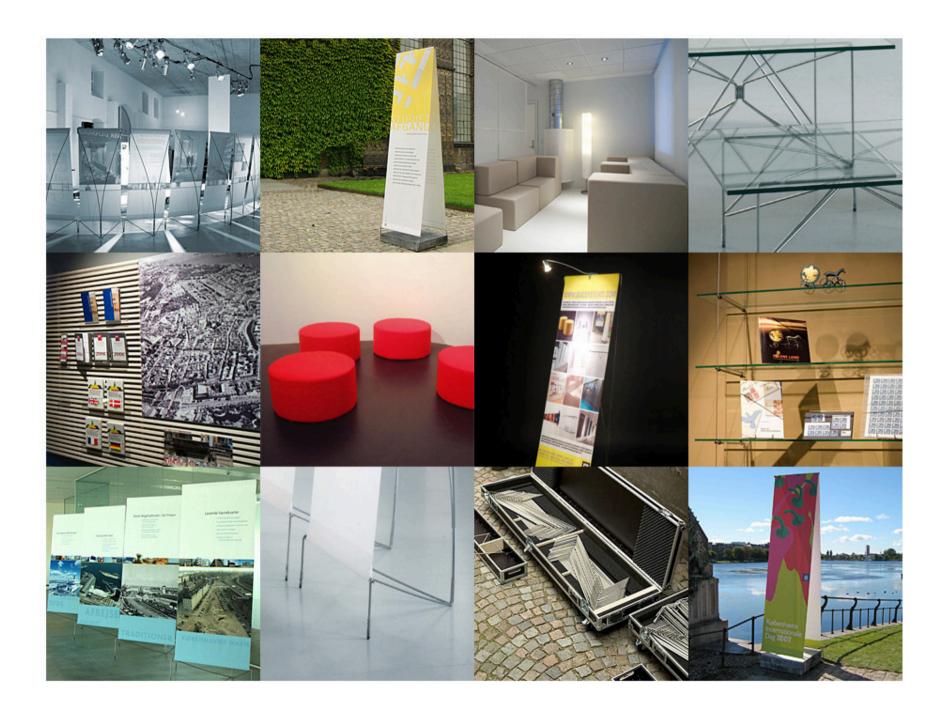


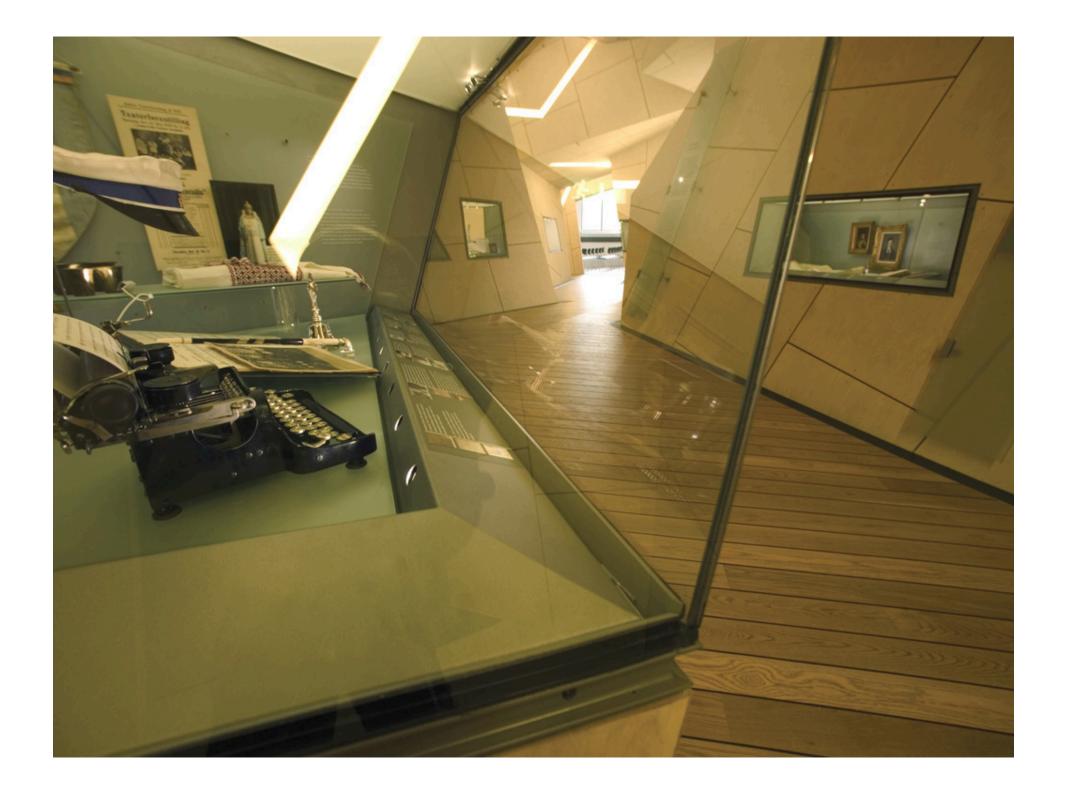


















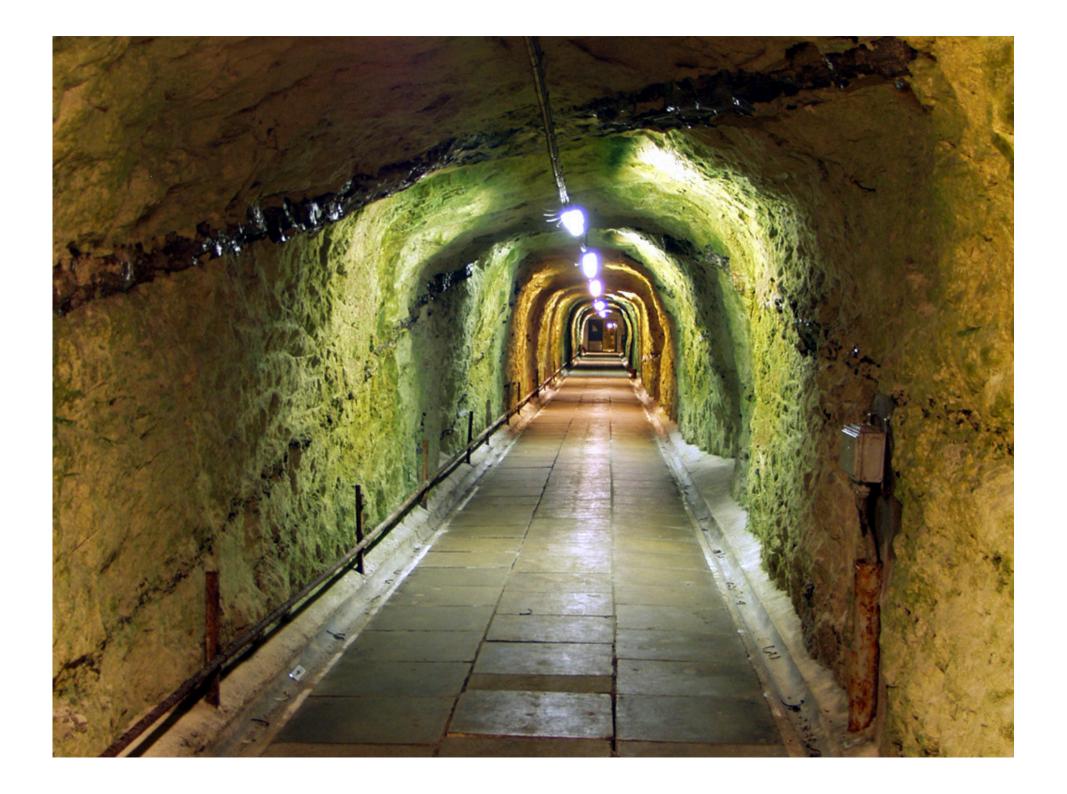






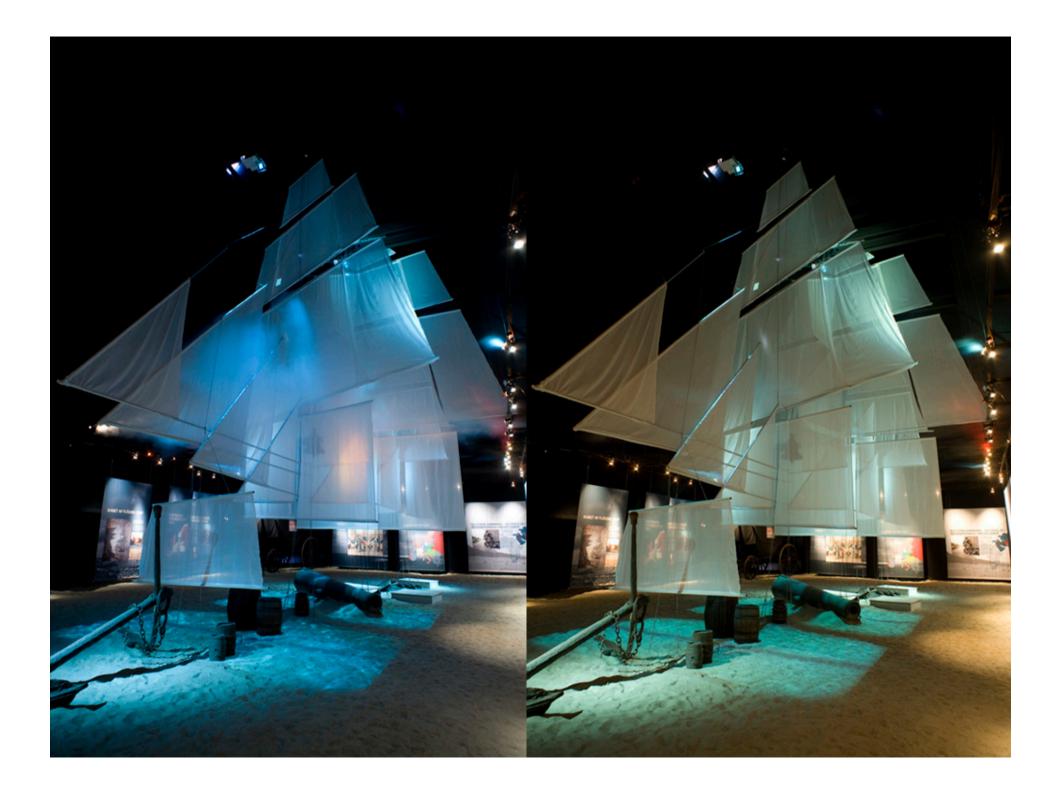




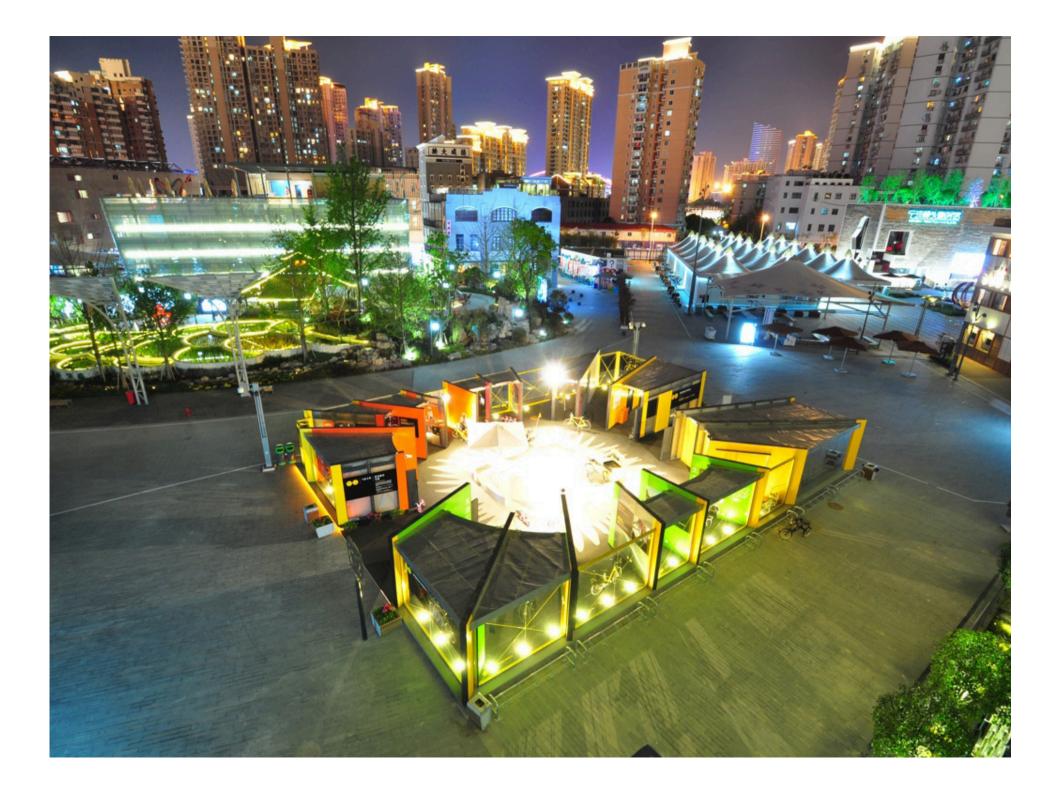












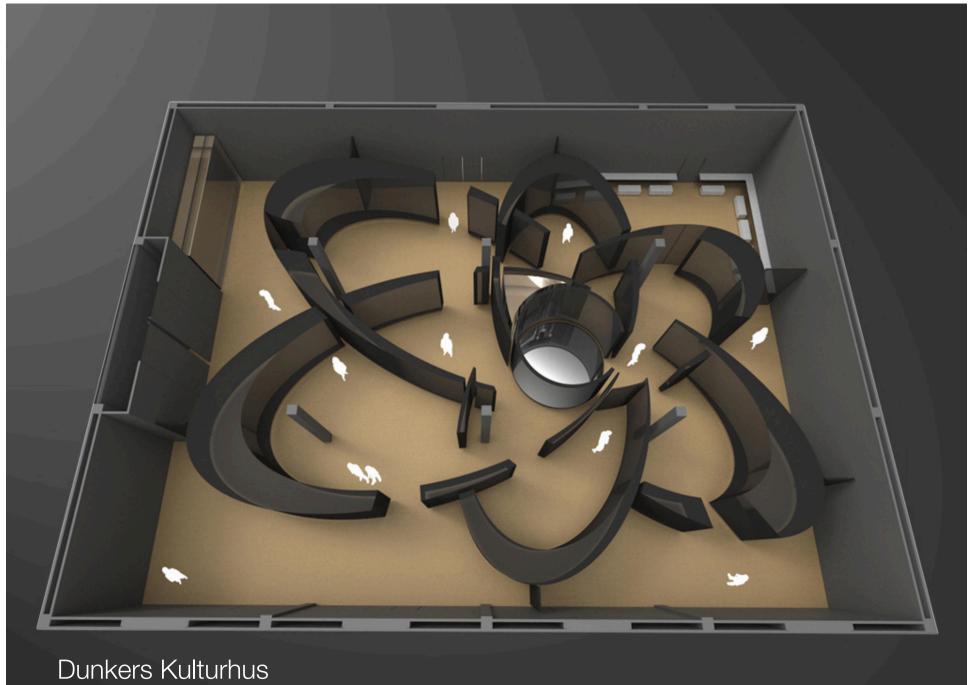


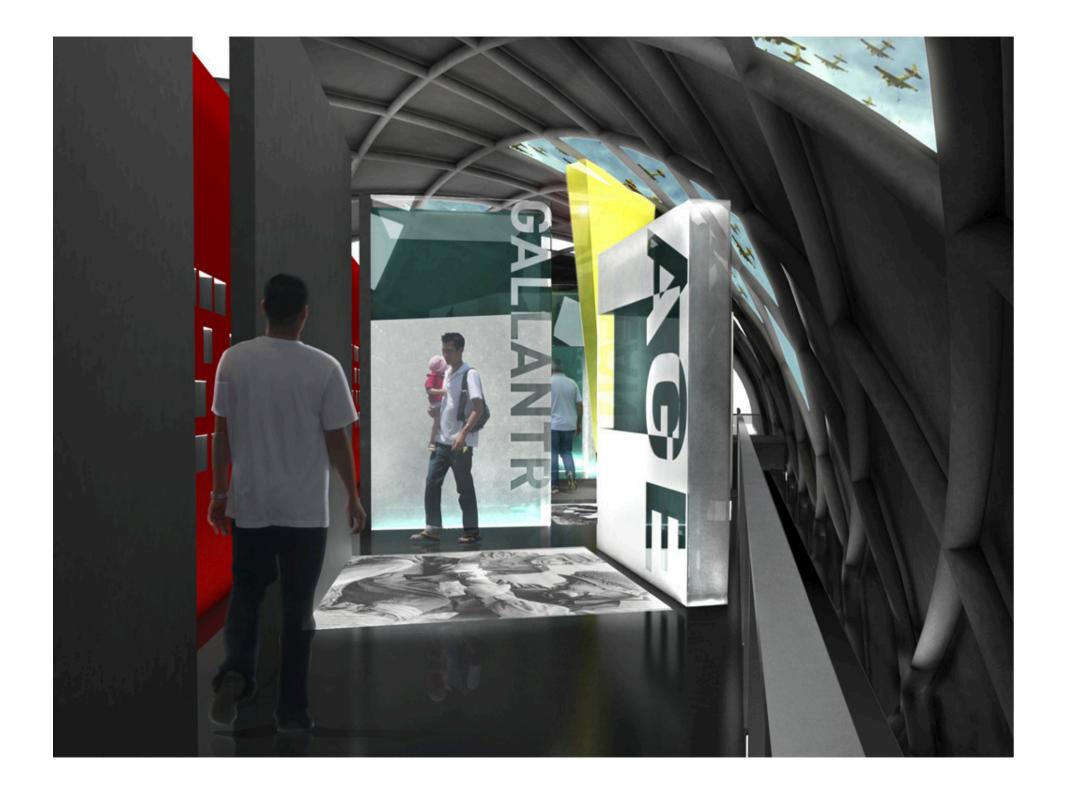






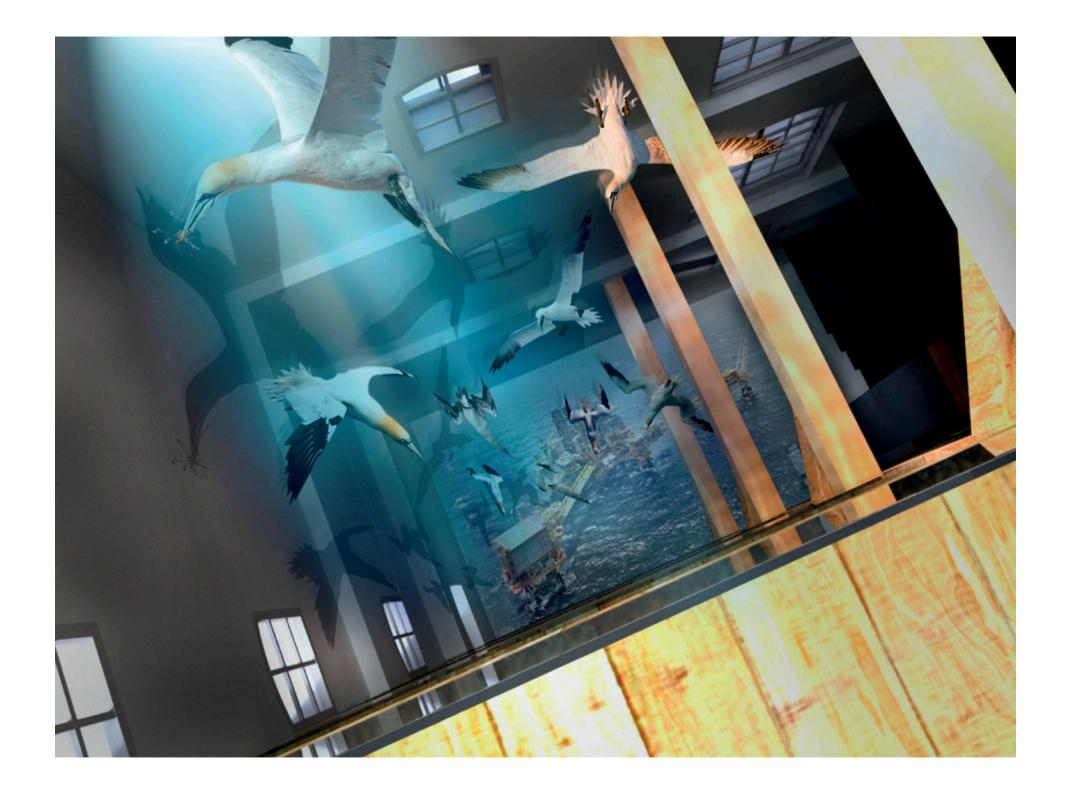




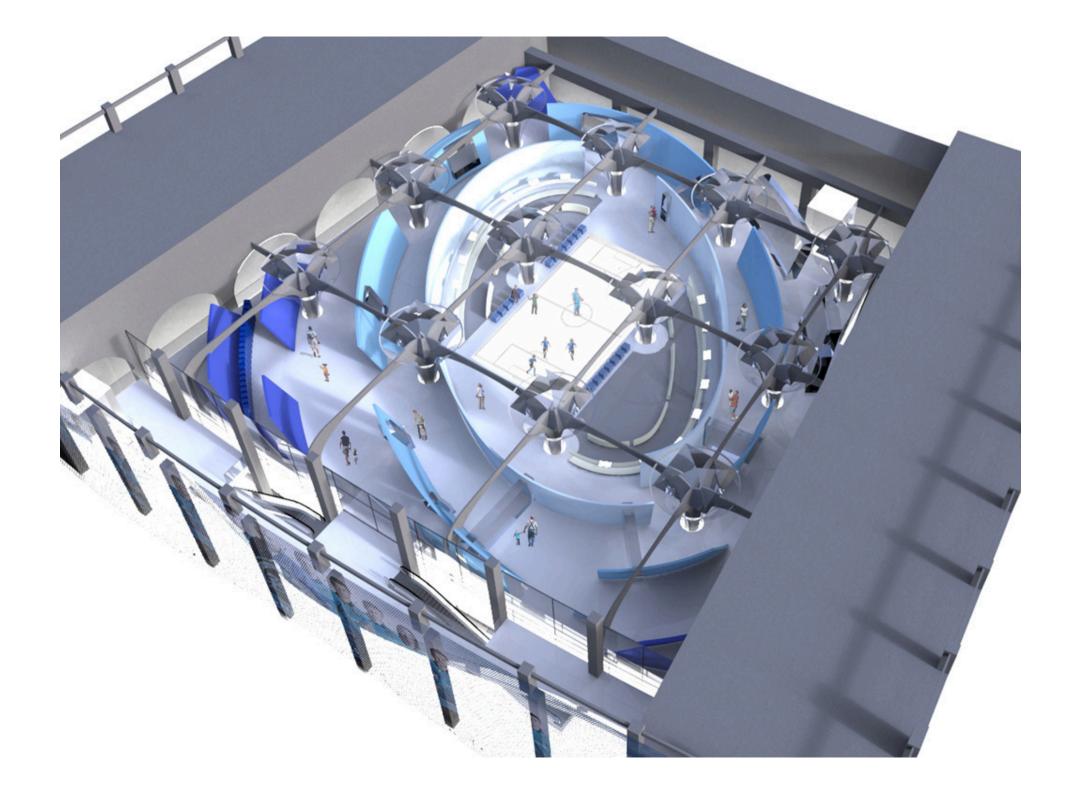








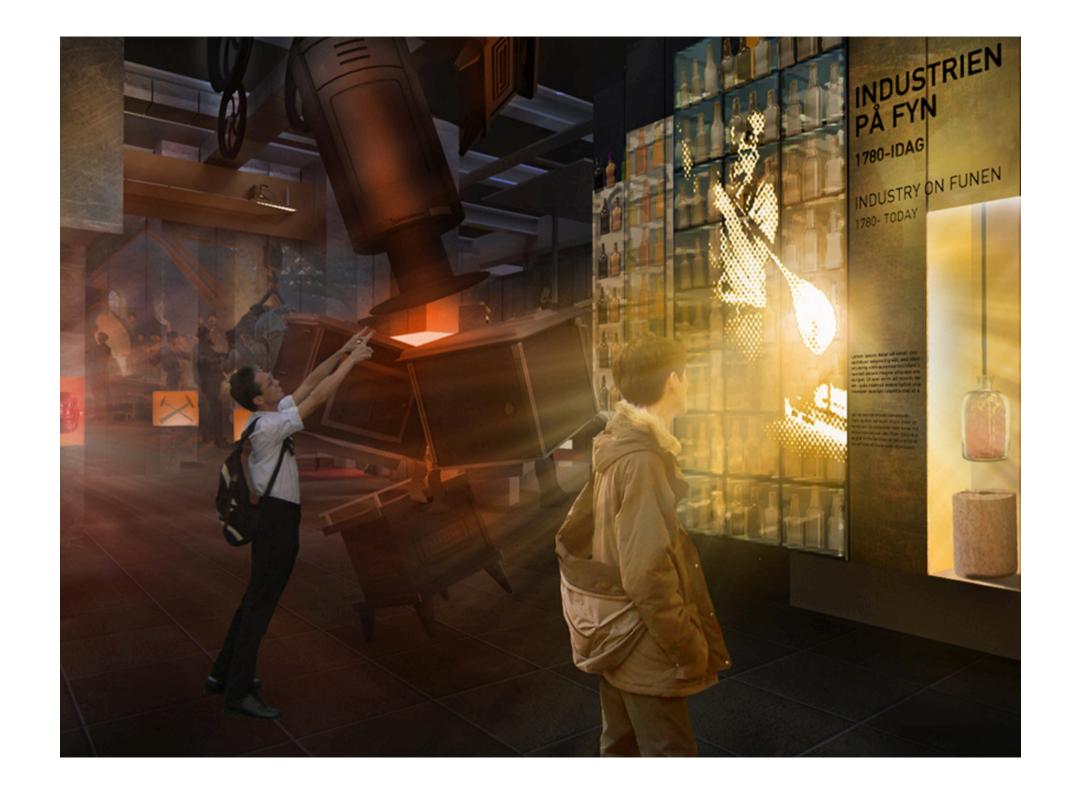


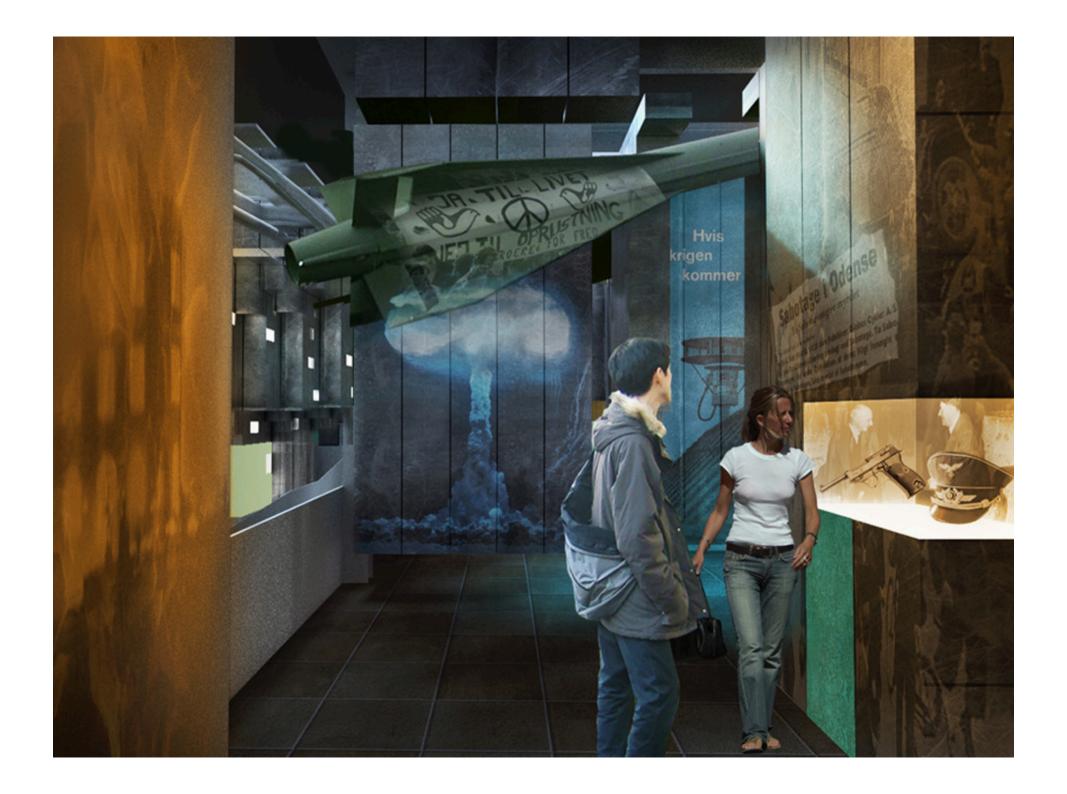


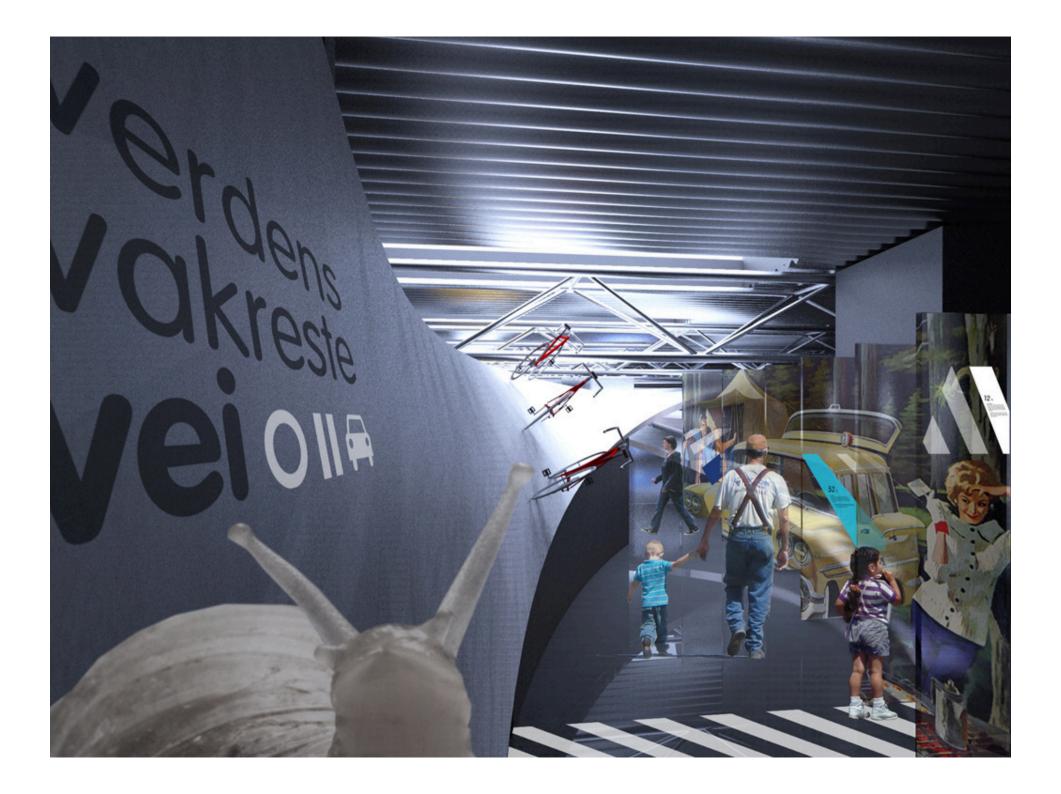




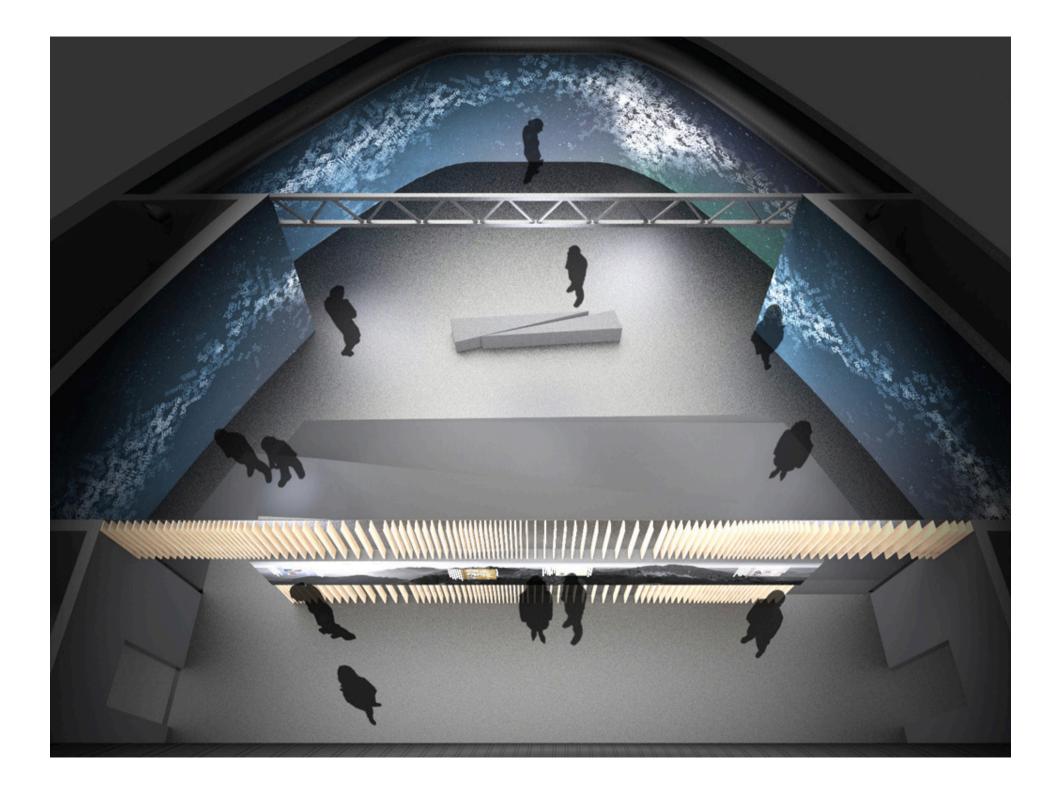


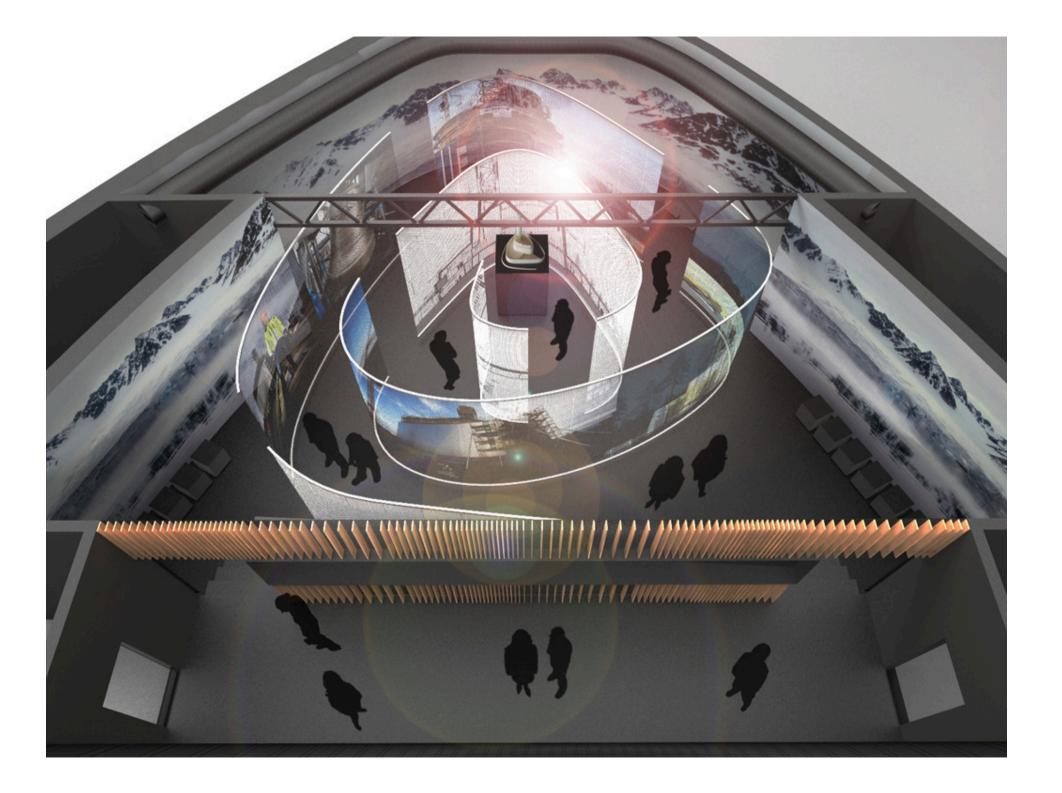


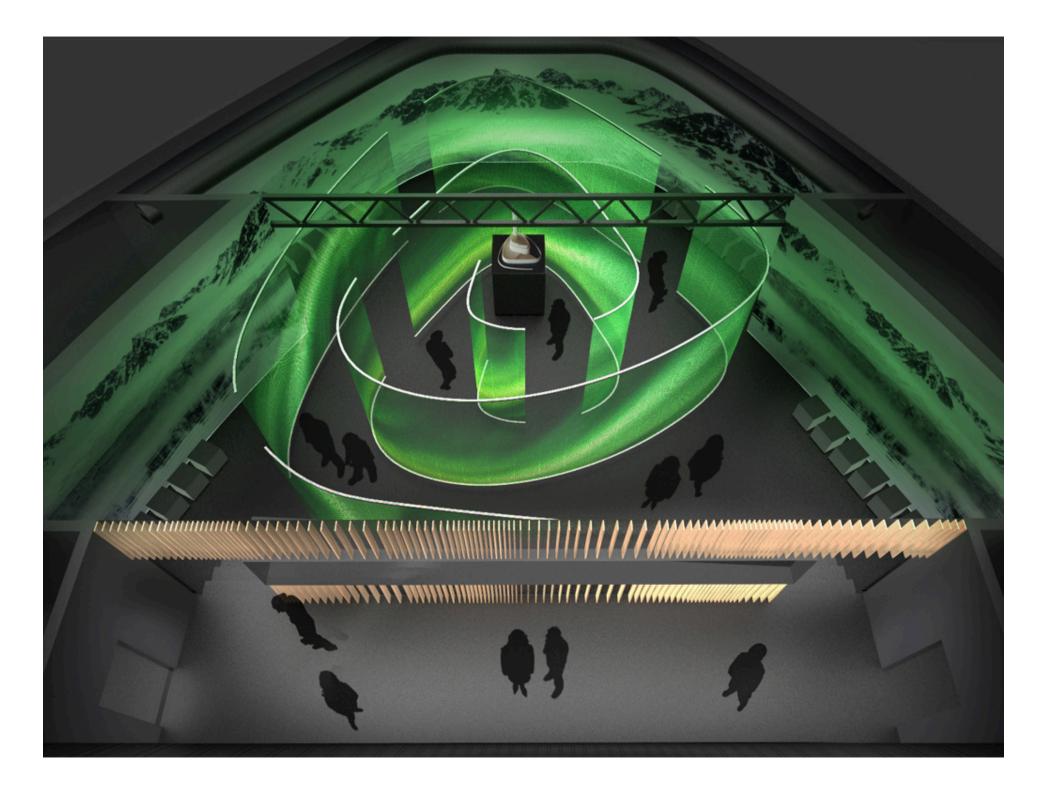


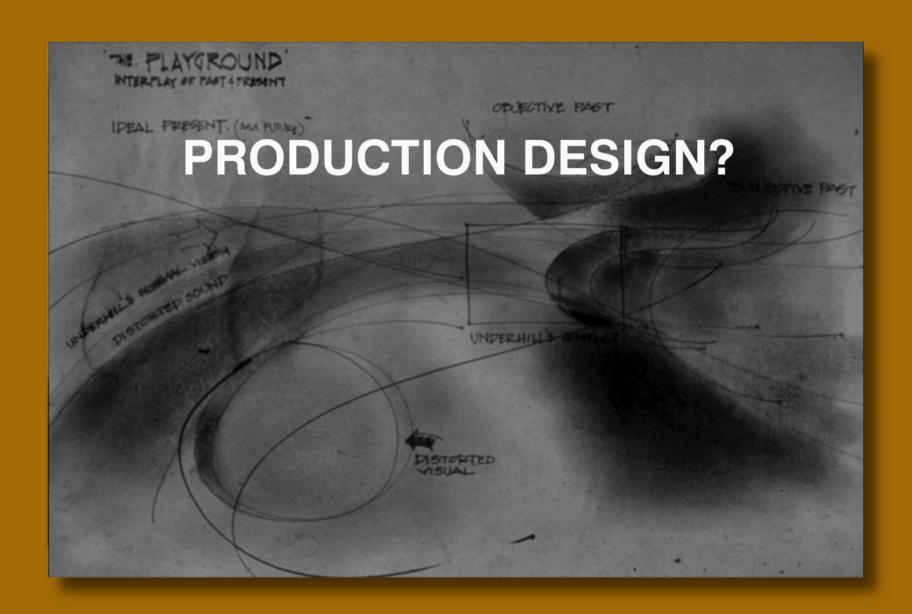














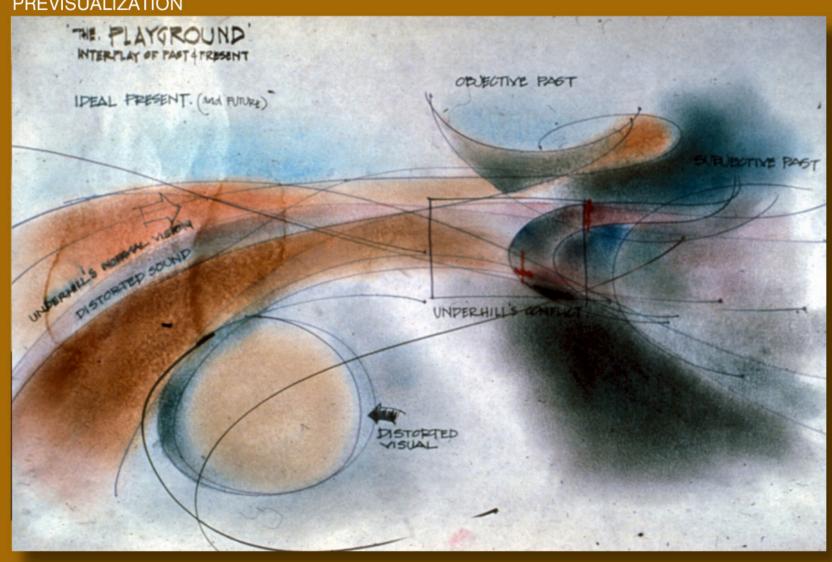


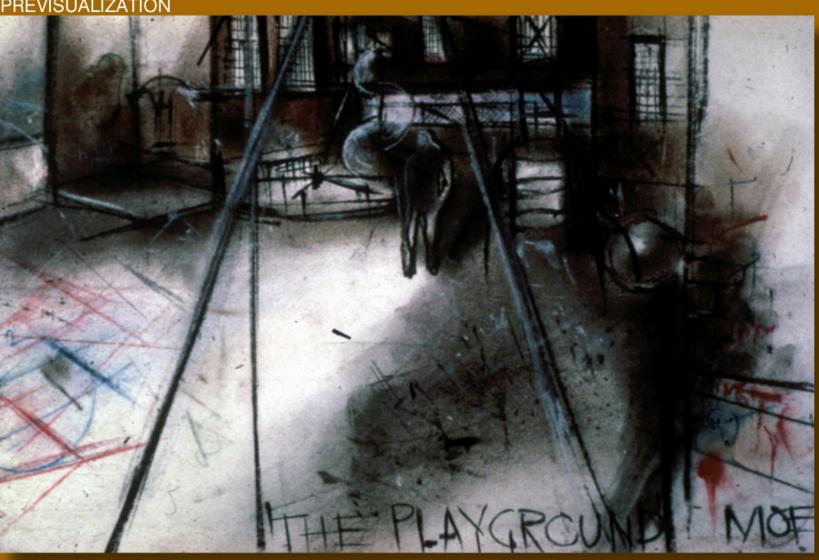








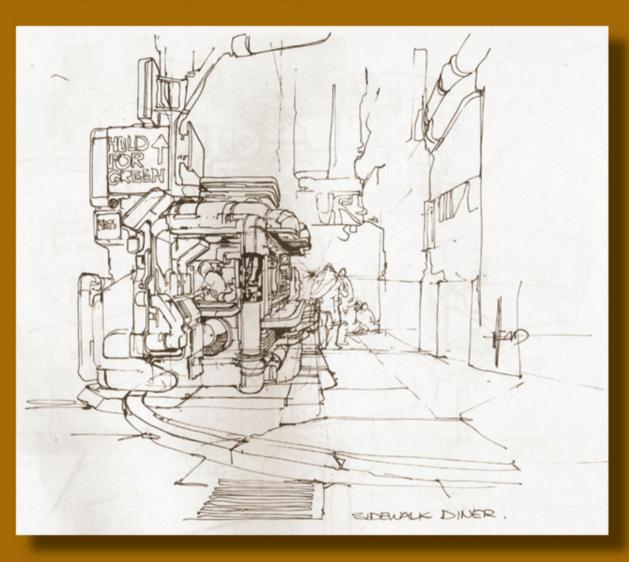




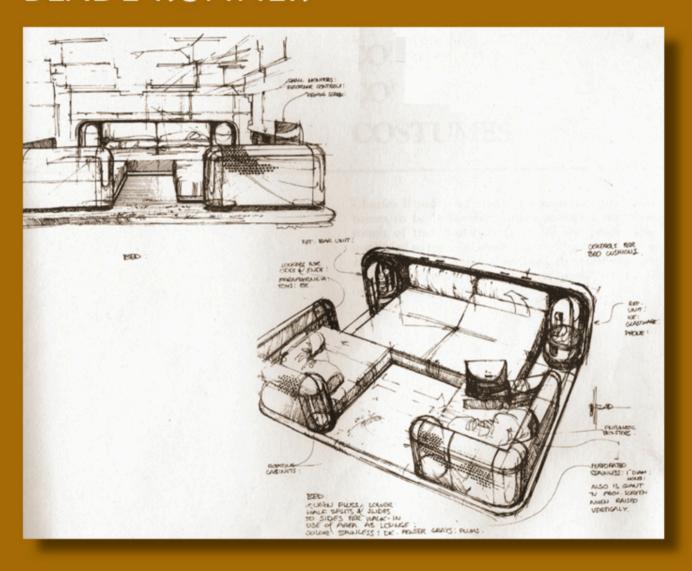




BLADE RUNNER



BLADE RUNNER

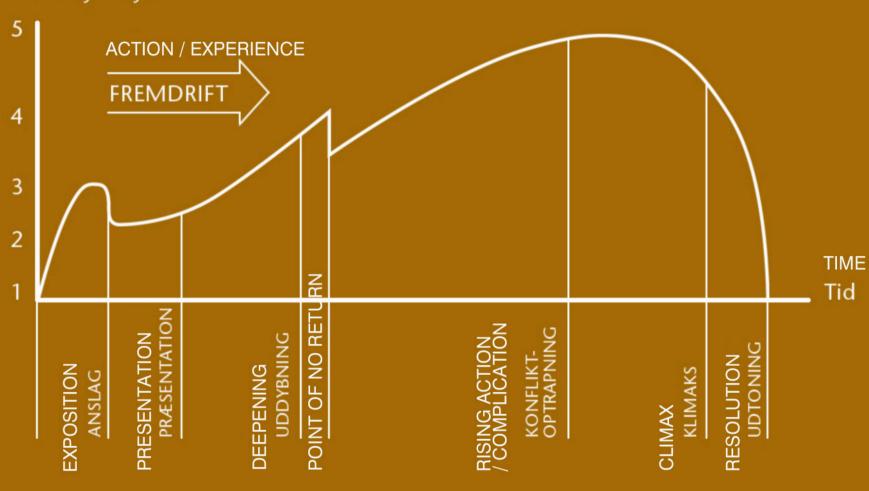


STAR WARS



SPÆNDINGSKURVEN

EXPRESSION Udtryksstyrke



UDTRYKSFORMER

MEANS OF EXPRESSION

De fem grundlæggende udtryksformer for en produktions tilblivelse er: THE FIVE BASIC MEANS OF EXPRESSION

FYSISKE OMGIVELSER (MILJØ)
PHYSICAL ENVIRONMENT

TID TIME

BEVÆGELSE MOVEMENT

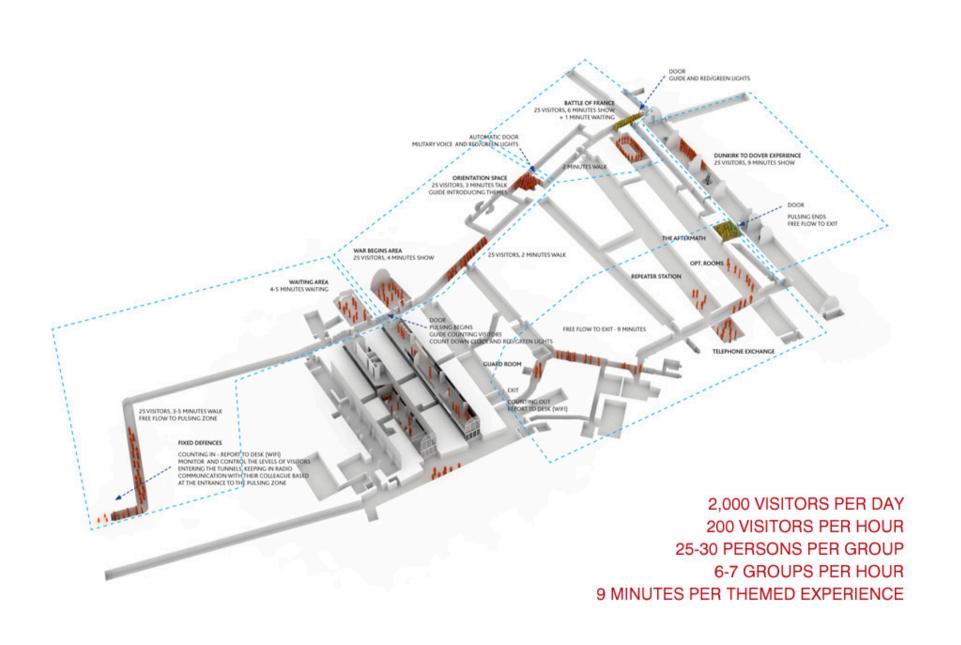
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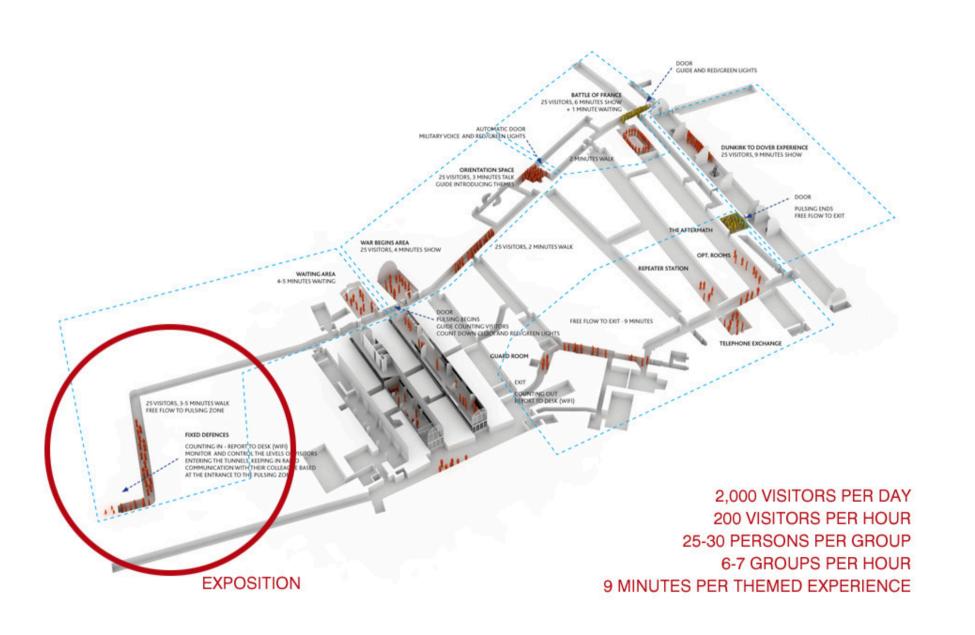
LYD SOUND

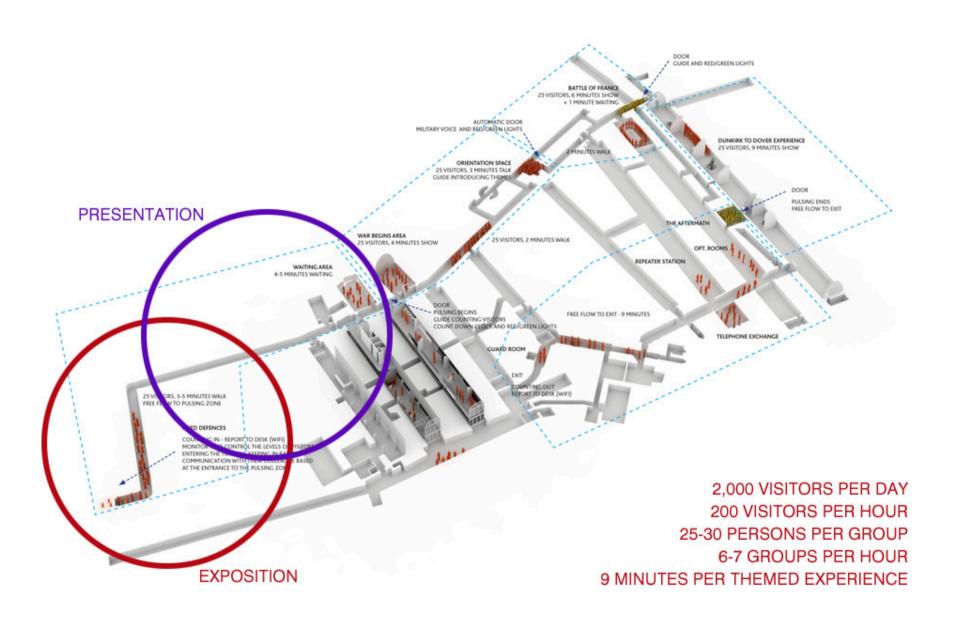


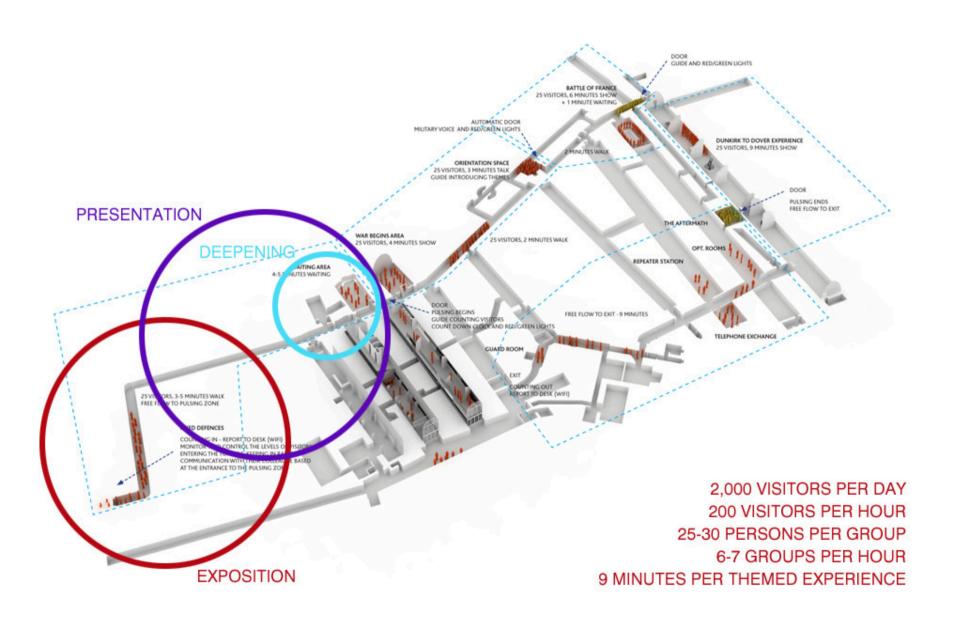


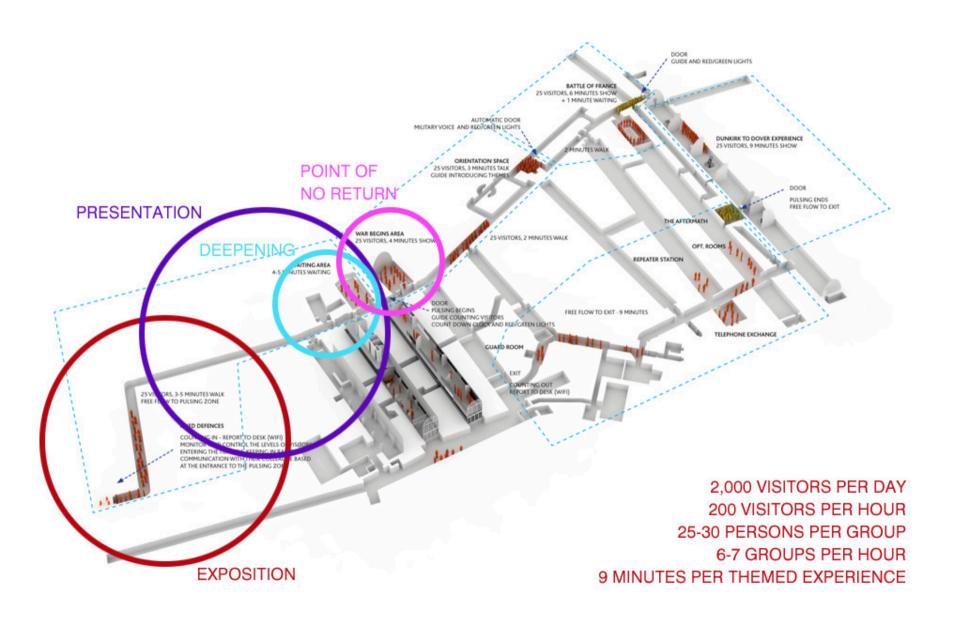


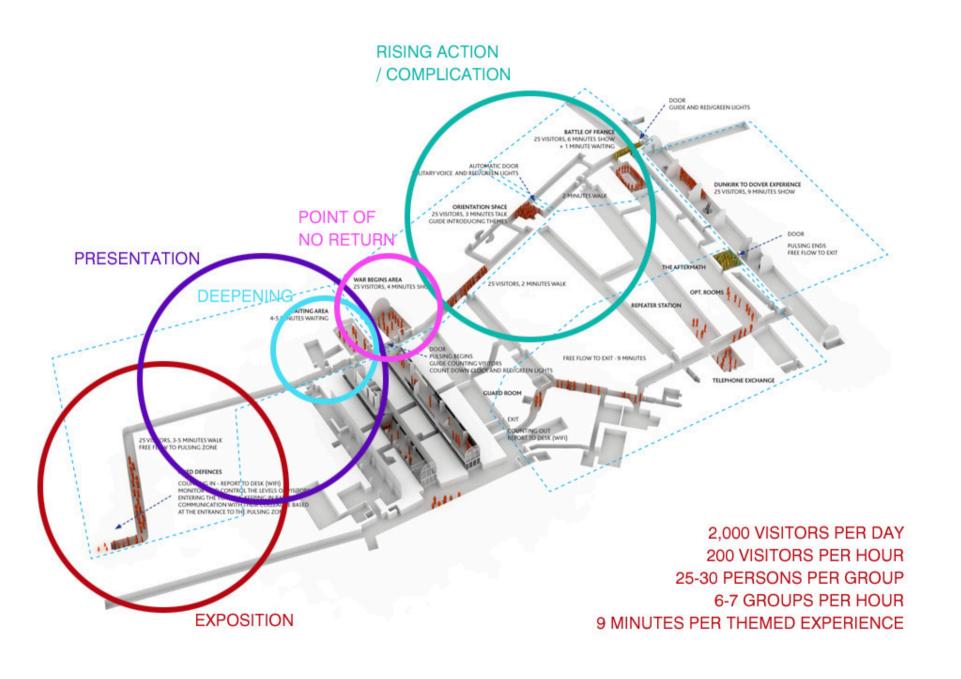


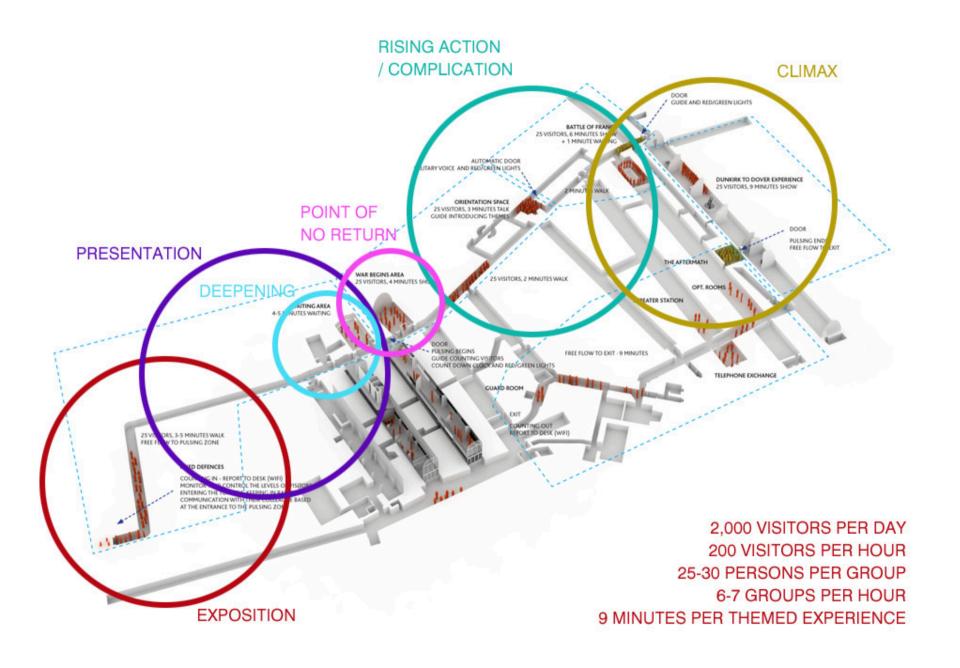


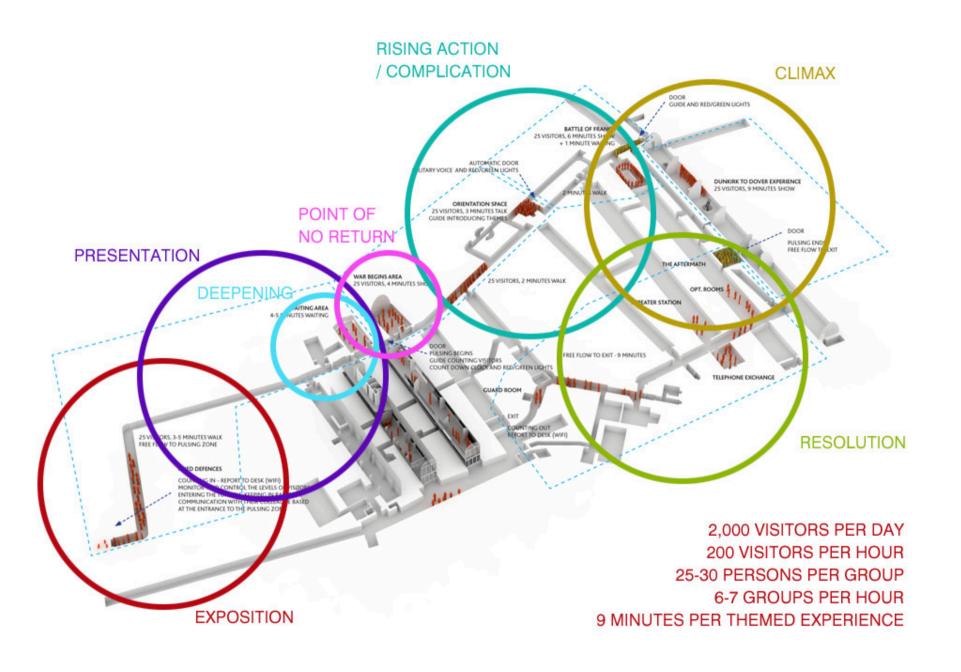












FLOW OVERVIEW

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Group 4										Walk	Waitin	g Area	War Beg	Walk	Orientation Space	Walk	Battle	Of France	Walk	Dunkiri	k To Dover	Expirience		9	Free Flow To	Exit	

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SCHEME DESIGN PAGE 4





1c Existing and replacement bell jar luminaires illuminate the vaulted corridors. Lamp type: A1

EXPERIENCE ZONE 1: FIXED DEFENCES & THE NORTH COMMUNICATION GALLERY

Lighting: The tunnels are lit by existing bell-jar luminaires supplemented by a few new ones. We propose that the original luminaires are cleaned and have a gasket added to them to prevent moisture from getting into the glass jar. Additional lighting in ventilation shafts draws attention to details along the way.

Audiosystem: Stand-alone mediaplayers feeding audio speakers are placed in the airshafts, playing back a soundscape of military instructions, prewar engineers, workers and the voices of military personnel, while communicating that the purpose of the tunnels have always been the same: War and defence. The three speaker systems in this area will be self contained and loop from power up. Each will consist of a soundstore with integral amplifier connected to a small box style loudspeaker. These systems will be stand alone and powered from DMXcontrolled switch in WB1, and will shut down in the unlikely event of an emergency.



InOut Panel Player P-01

Mediaplayer: 3 X InOut Panel Player P-01

are featured on p. 42)

Im pact 50 passive speaker

Speakers: 3 x Impact 50 passive speakers (Audio equipment



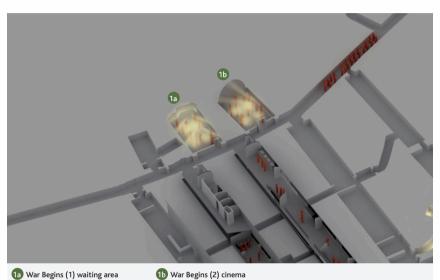
A1: Existing bell jar luminaire

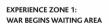
Control: All lamps will be on continuously during opening hours, will be powered locally and connect to the following circuit: SHARED LIGHTING. Audio will be powered from DMXcontrolled switch in WB1, and will shut down in the unlikely event of an emergency.



A1: Replacement bell jar luminaire

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Lighting: To achieve the 1939 atmosphere the main lighting will come from 4 coolie shades fixtures mounted in the ceiling. (Fixture O8) To avoid glare the bulb will be mounted with an antiglare shade. The bulb can be a LED retrofit bulb.

Posters on the wall will be carefully lit from above using wall washer fixtures with barndoors (Fixture K4). Props (benches, hall hangers with newspapers) will be slightly highlighted using narrow beam fixtures (Fixture N7).

The chalk wall will be lit to highlight its dramatic appearance - however, the fixtures for this has not been chosen at the time of writing, as even small adjustments to positions, beam angles and luminaire types will make all the difference to the complex surface. The chalk pit wil be lit by two recycled Bulkhead lamps placed out of sight.

To control the visitor flow an indicator light unit will be mounted on the wall close to the door. The indicator light will contain a red and a green light fixture. The two light sources

will be a LED but dimmed and cloaked to look like a 1939 incandescent light source. A period count-down device will be placed over the door to help visitors keep track of the waiting time left.

Audiosystem: A stand-alone mediaplayer with two small speakers give the feel of the sound coming from a 1940's style radio set placed above the door. With the small speakers we can form the sound quality to match the very hard-shaped sound which one would hear in a period radio.

Mediaplayers, Speakers: 2 x MM4XP (Audio equipment are featured on p. 42)

Control: All lamps double as house lights and connect to the SHARED LIGHTING circuit.

Show Control system: A local Audio player in the space will be controlled from the main control rack(s) 5,6,7. Lighting, indicator lamps and countdown device will also be controlled over DMX from these racks. Local push button panel to enable show status from operator.



1a WB waiting area: Fixture O8: Coolie shade, Fixture N7: Philips Aureol BeamShaper, K4: Wallwasher



Fixture O8: Coolie shade (re-used) retrofitted with LED-lamp



Fixture N7: Philips Aureol BeamShaper Low-Voltage Halogen Lightsource.

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1a Afterm. 1b CA. Ops. 1c AA Ops. 1d Tel. Exch. 1e Rep. St. 1f Side tunnels 1g Guard

(b) (C) Minor changes to the lighting in the Coastal Artillery Operations and Anti-Aircraft Operations make them even more authentic.



1c Anti-aircraft ops with graphic panel and video label

EXPERIENCE ZONE 5: AFTERMATH (DOVER AS FRONTLINE)

Lighting: As a contrast to the previous open space in Escape from Dunkirk the feeling in this room will be more confined. Very narrow beam fixtures (N7) light up the "print on steel pictures" that are set in a sequence, creating a horizon on the western, northern, and eastern walls. A large triptych of the

Germans at the Channel covering the south wall is lit from above with a wall-washer fixture. See graphic design for details.

All lighting fixtures will be mounted in a single unistrut assembly mounted at the ceiling apex, reducing montage in the brick mortar to just a few bolts.

Audiosystem: 2 x MM4XP speakers plus MINI subwoofer pane MM10-XP play back Churchill's "We shall fight on the beaches" N7. speech.

Control system: The speaker systems in this area will be self contained and loop from power up. Each will consist of a soundstore connected to a subwoofer with integrated amplifier that splits the audio signal for the two stereo speakers . The system will be stand alone, locally powered and DMX-controlled from Rack no. 4, and will shut down in the unlikely event of an emergency.

Exhibition lighting double as house lights via the SHARED LIGHTING circuit.

The exact positions of outlets/spurs needed will be specified in the Detailed Design documents.

COASTAL ARTILLERY OPS AND ANTI-AIRCRAFT OPS

Lighting: Existing light fixtures in Coastal Artillery Operations will be swapped for halophosphor fluorescent lamps with a low quality colour rendering. A poor colour rendering make interiors look bleak, but more true to life from a historic perspective. We would propose to use the same source for the general lighting of the anti-aircraft operation room. Highlights are added by narrow-beam fixtures N7 to accentuate the functions of the dressed spaces.

Panel PC's: Two panel PC's with touchscreen for choosing languages will be playing a mute video label explaining the room's function. To be mounted at the barrier rail. Graphic

panels next to the screens will be lit by narrow-beam fixture N7

Audiosystem: Stand-alone audioplayer (mounted behind panel PC) with2 x MM4XP, 1 MM10-XP speakers. Soundscape: Busy voices, coordinates being plotted, telephones ringing, steps to and fro.

Control system: The speaker systems in this area will be self contained and loop from power up. Each will consist of a soundstore connected to a subwoofer with integrated amplifier that splits the audio signal for the two stereo speakers. The system will be stand alone, locally powered and DMX-controlled from Rack no. 4, and will shut down in the unlikely event of an emergency.

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Fixture M6: Rosco X-effect

Fixture M6: Rosco X-effect

Fixture N7: Philips Aureol BeamShaper



EXPERIENCE ZONE 4: RESCUE FROM DUNKIRK, CASEMATE Z

Projection system: The system consists of 18 x Optoma EX785 0.8:1 projectors grouped together to cover various bay sizes within the space. A further five projectors will be used to recreate partition walls, projecting on a suspended mesh.*

Each projector will be fed from a channel of dataton server and the signal distributed via a Cat 6 balun / graphic extender. The dataton server will be required to soft edge, blend and warp the projected images onto the side of the tunnel and also the walls that separate the spaces. Each projector will be mounted into a custom metalwork tray that has filters to clean the air entering the projector (each side). There is also a remote controlled iris to the front of the projector to enable the "video black" to be controlled during the show.

Rosco X-effects (fixture M6) will be used to create fire effects on the walls below the ventilation duct, while narrow-beam fixtures (N7) with gobos will create fiery glows, or glipses of sky silhouetting soldiers. Other narrow-beam fixtures will highlight props as they become relevant for the story.

All equipment and cabling will be placed in a metal tray suspended above the ventilation duct, connecting to show control racks no. 5,6 and 7 placed in tunnel RCZ 2. Heavy ducting will be needed to lead cables from tray to rack tunnel.

The exit door (DC29) will be automated to open at the end of the show, and indicators light will be mounted above the door. As it switches to green a military command voice will tell the group to move forward.

Because the lighting equipment is highly specialised, it will not be possible to use the Casemate Z exhibition lighting as house lighting. House lighting locations will be given when the projection tray design is completed.

Audiosystem: The set-up comprises 24 speakers in total - to be placed on the same tray as the projectors. Each speaker will point in a specific direction to obtain a specific goal. Some will point upwards to make a reflection on the ceiling thereby giving the impression that an aeroplane is flying above us. Others will be directed at projection areas to make the sound come from the image - using the reflection from the wall.

Showcontrol: All equipment and animate objects, such as a teleprinter and a rotating machine gun, will be activated via the showcontrol system at racks 5, 6, 7. All light, video and animate objects are triggered by SMPTE-code to make a complete synchronised experience.

Suggested speakers and control/playback equipment:

- 1 x Yamaha DME 24 (digital mixing console)
- 1 x Blackbox JoeCo (playback unit)
- 21 x MM4-XP (speaker)
- 4 x MM10-XP (subwoofer)

*For a full assessment of projection possibilities and limitations, please refer to the Projection Demonstration Report. For a detailed content description, see the Concept Design Document.

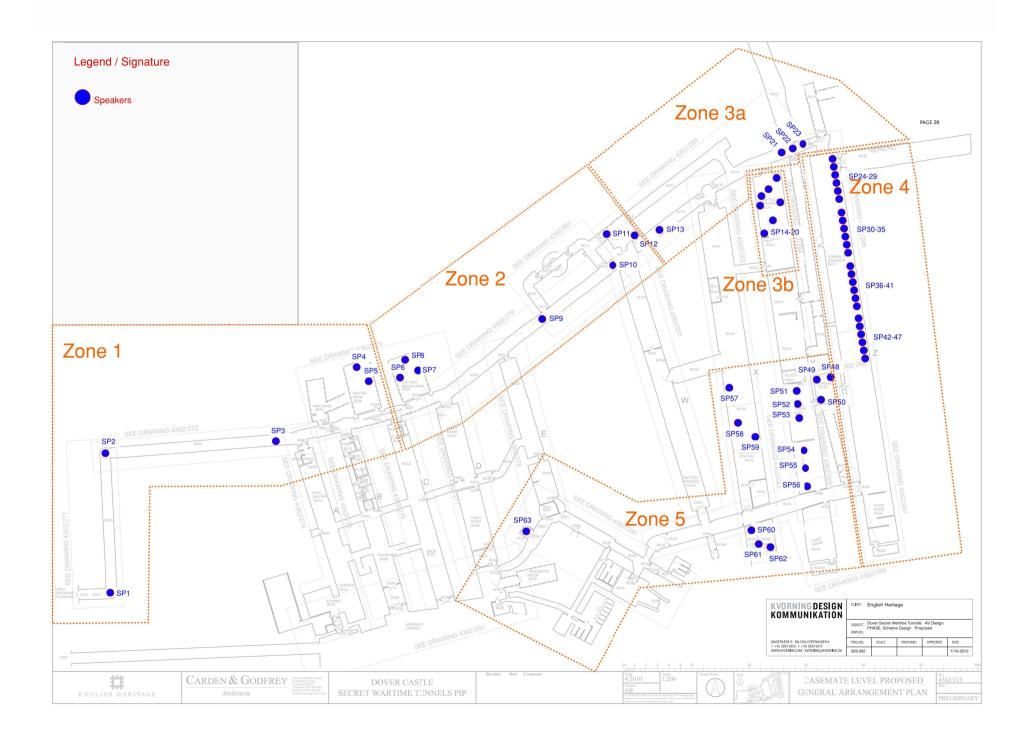
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Video, sound, and animate objects, such as a rotating machine gun, will be synchronised via the showcontrol system.

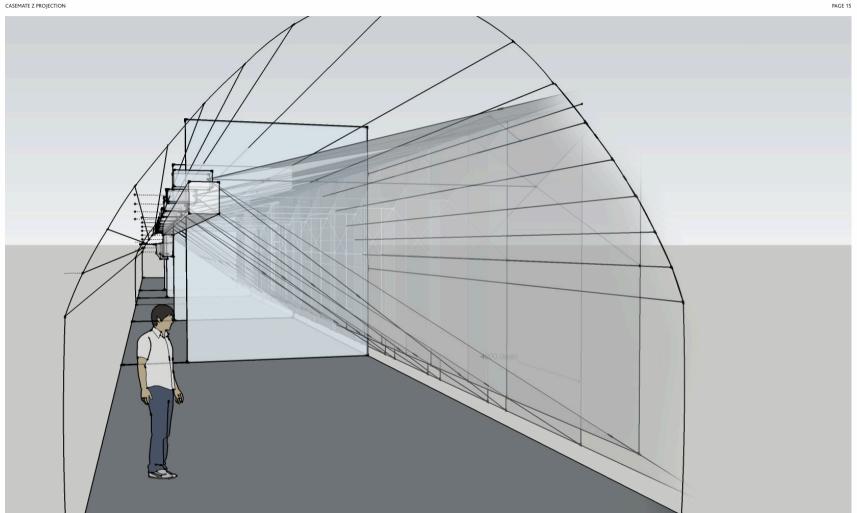
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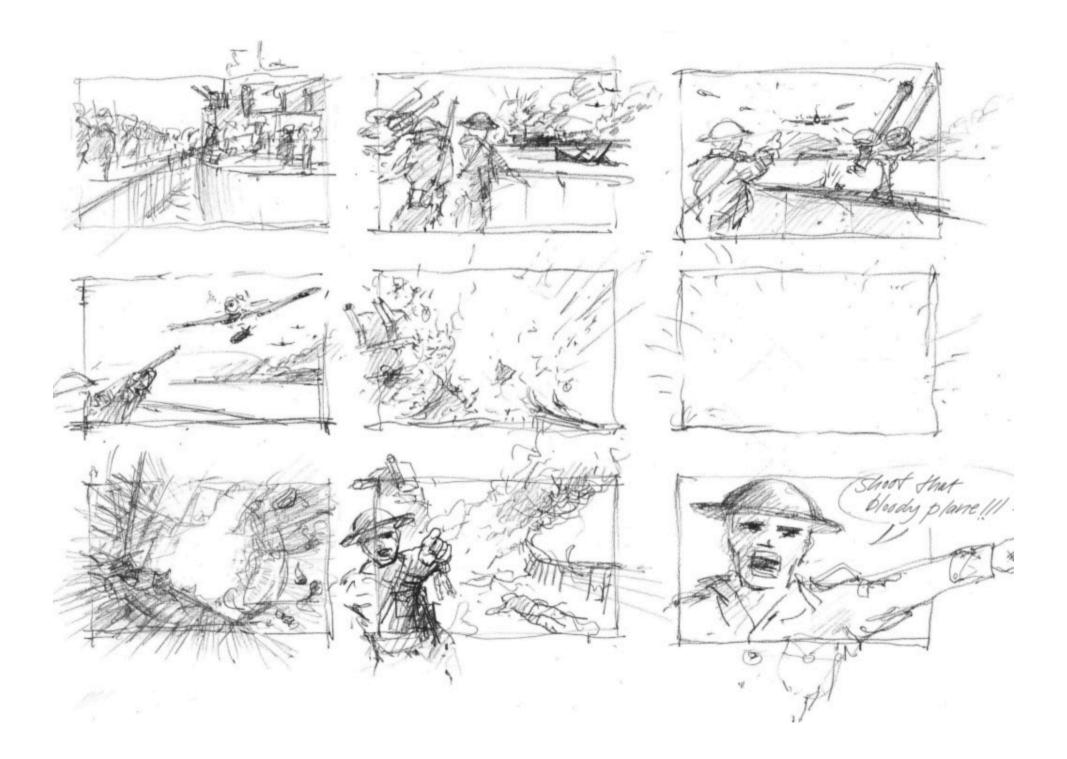
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	PROJ.NO.	SCALE	PREPARED	APPROVED	DATE
DV.	220,002				7/10 2010

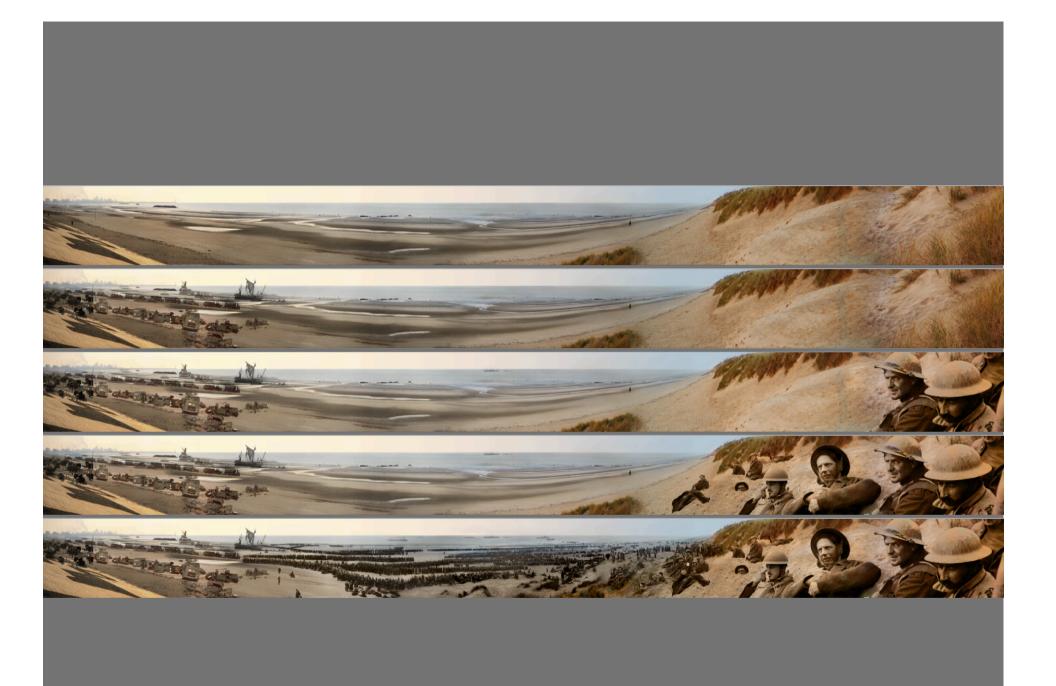














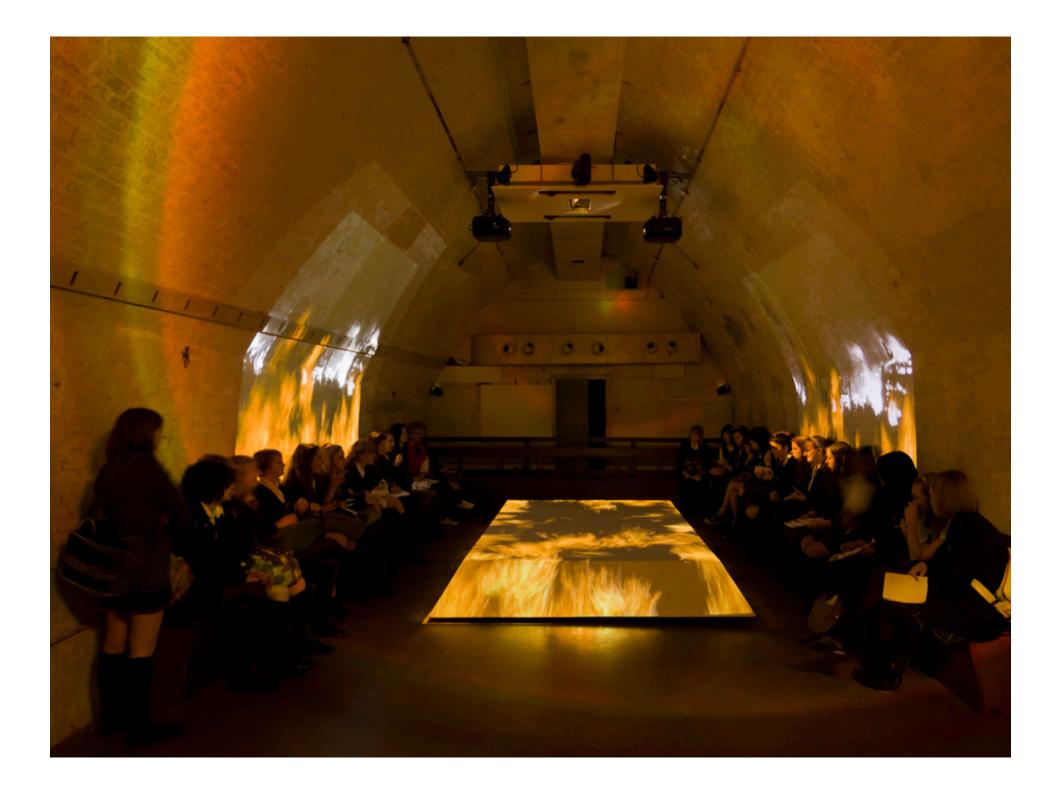


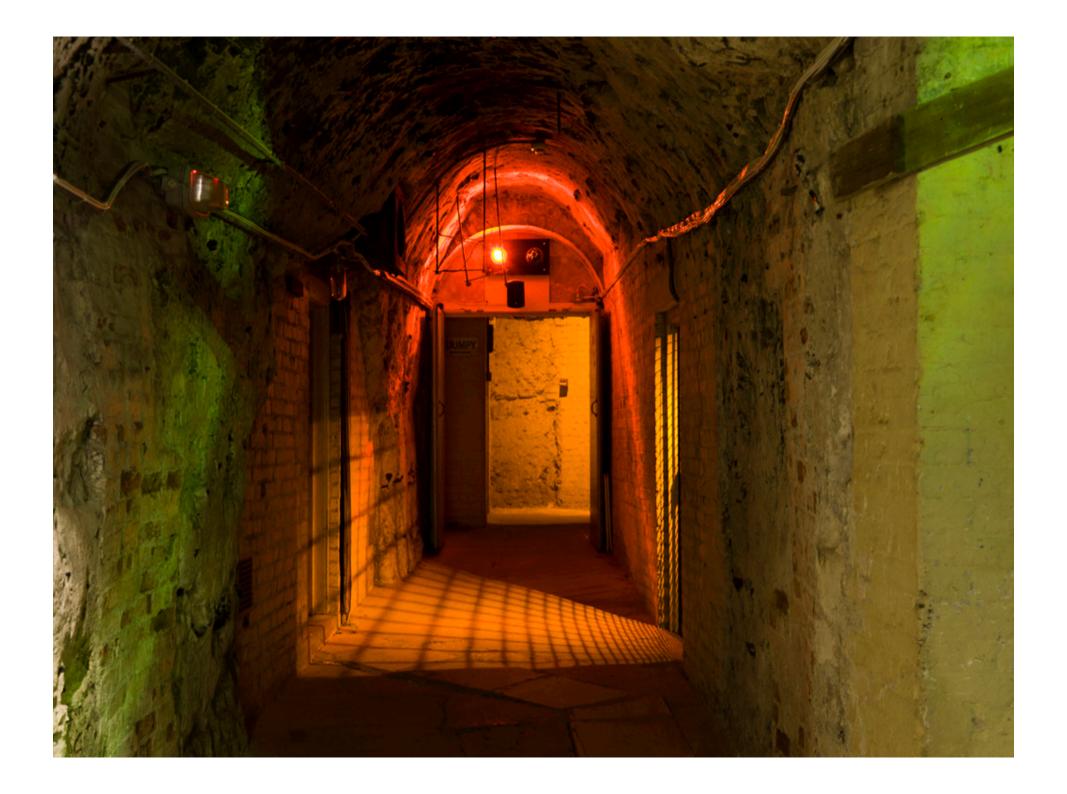


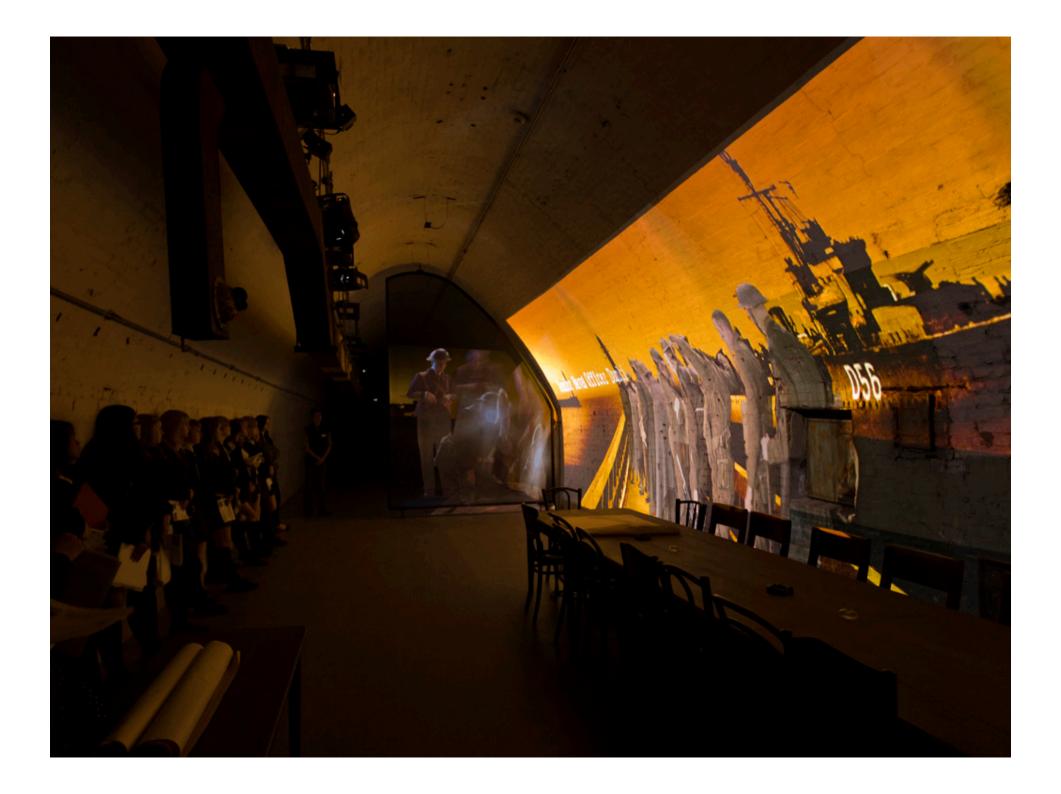
















KVORNING DESIGN KOMMUNIKATION