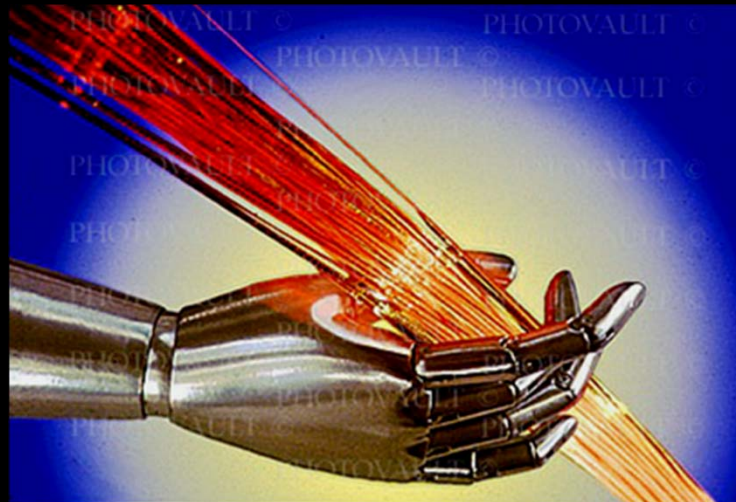


ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS **ROBOTIZED ARCHITECTURE**



DR.ASHRAF ABDEL MOHSEN
ARCH. HAITHAM ABDEL LATIF
AIN SHAMS UNIVESITY

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

ARCHITECTURE FOR THE PAST AND PRESENT

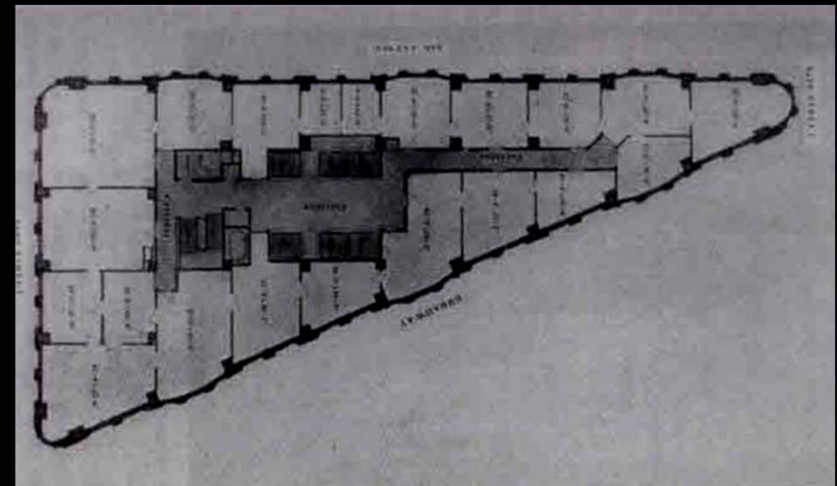
1900-2000

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1900-1910



1903



Daniel H. Burnham

Fuller Building (Flatiron)

NEW YORK CITY 1901-1903

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1913

1900-1910



Walter Gropius with Adolf Meyer

Fagus Factory

ALFELD-AN-DER-LEINE (GERMANY) 1911-1913

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1926

1920-1930



Walter Gropius with Adolf Meyer

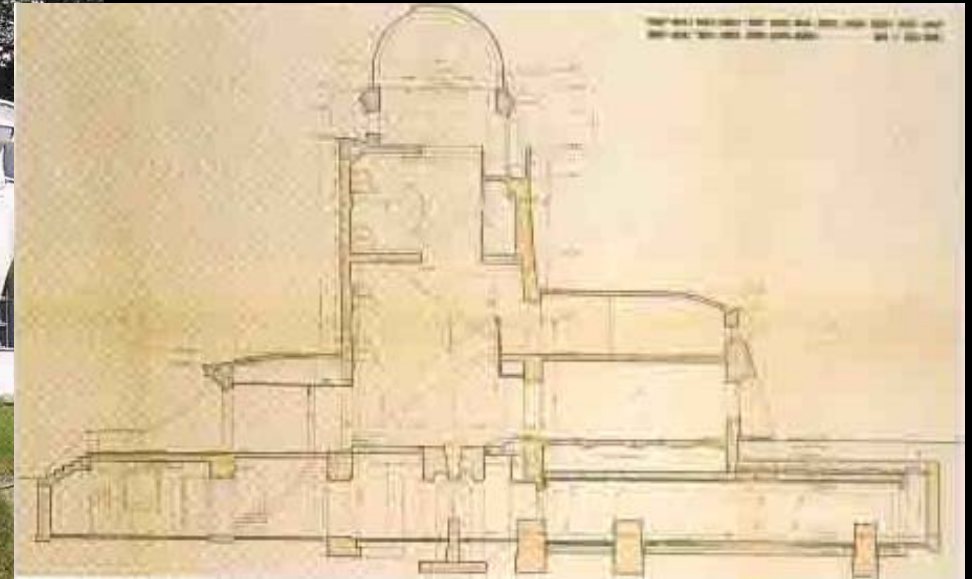
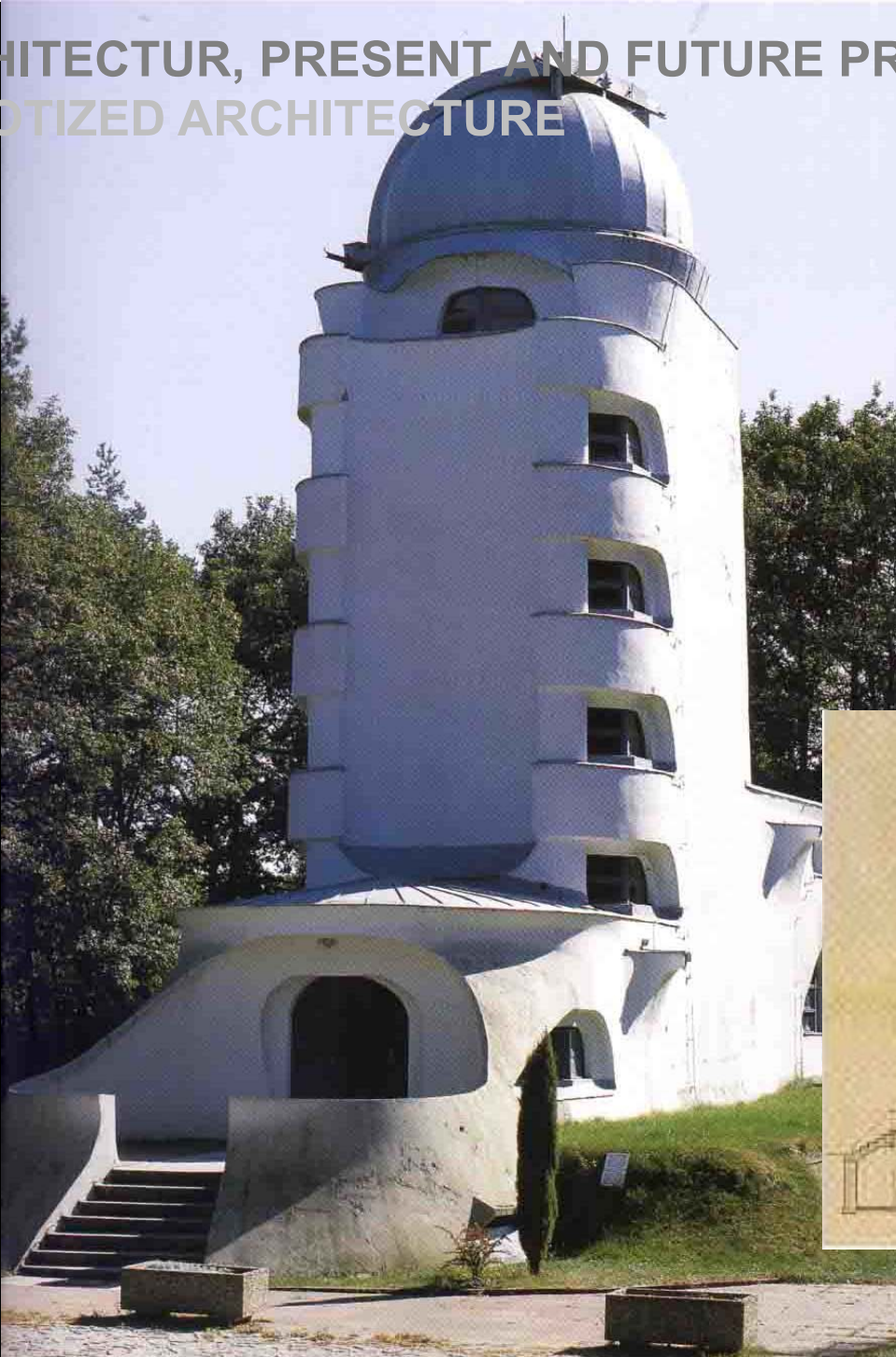
Bauhaus

DESSAU (GERMANY) 1925-1926

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1934

1930-1940



Erich Mendelsohn

Einstein Tower

POTSDAM 1919-1924

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1937

1930-1940



Frank Lloyd Wright

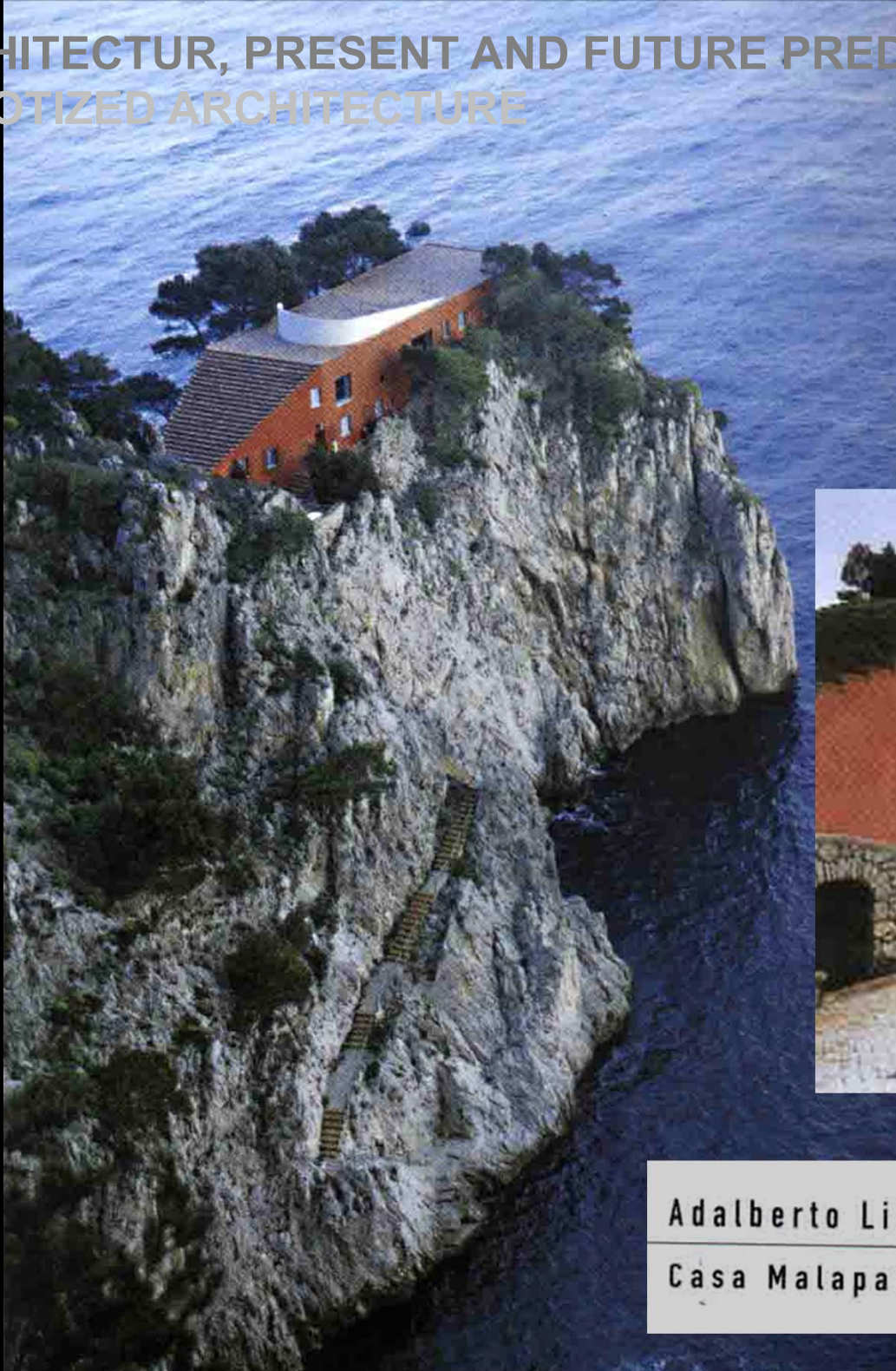
Fallingwater

BEAR RUN, PENNSYLVANIA 1936-1937

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1943

1940-1950



Adalberto Libera

Casa Malaparte

CAPRI (ITALY) 1938-1943

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1955

1950-1960



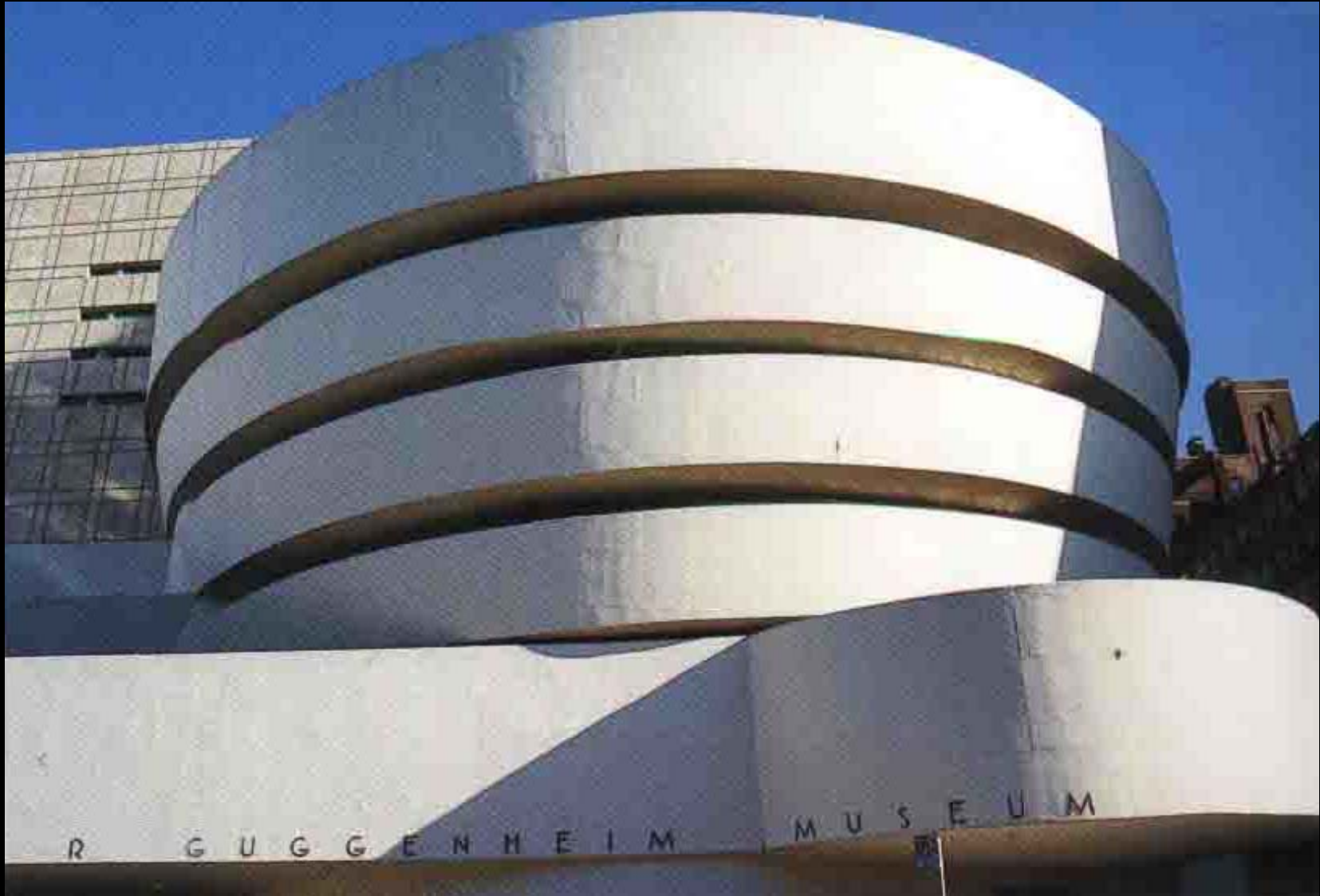
Le Corbusier

Notre-Dame-du-Haut Chapel

RONCHAMP (FRANCE) 1950-1955

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1959



Frank Lloyd Wright

Solomon R. Guggenheim Museum

NEW YORK CITY 1943: 1956-1959

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1967

1960-1970



Richard Buckminster Fuller

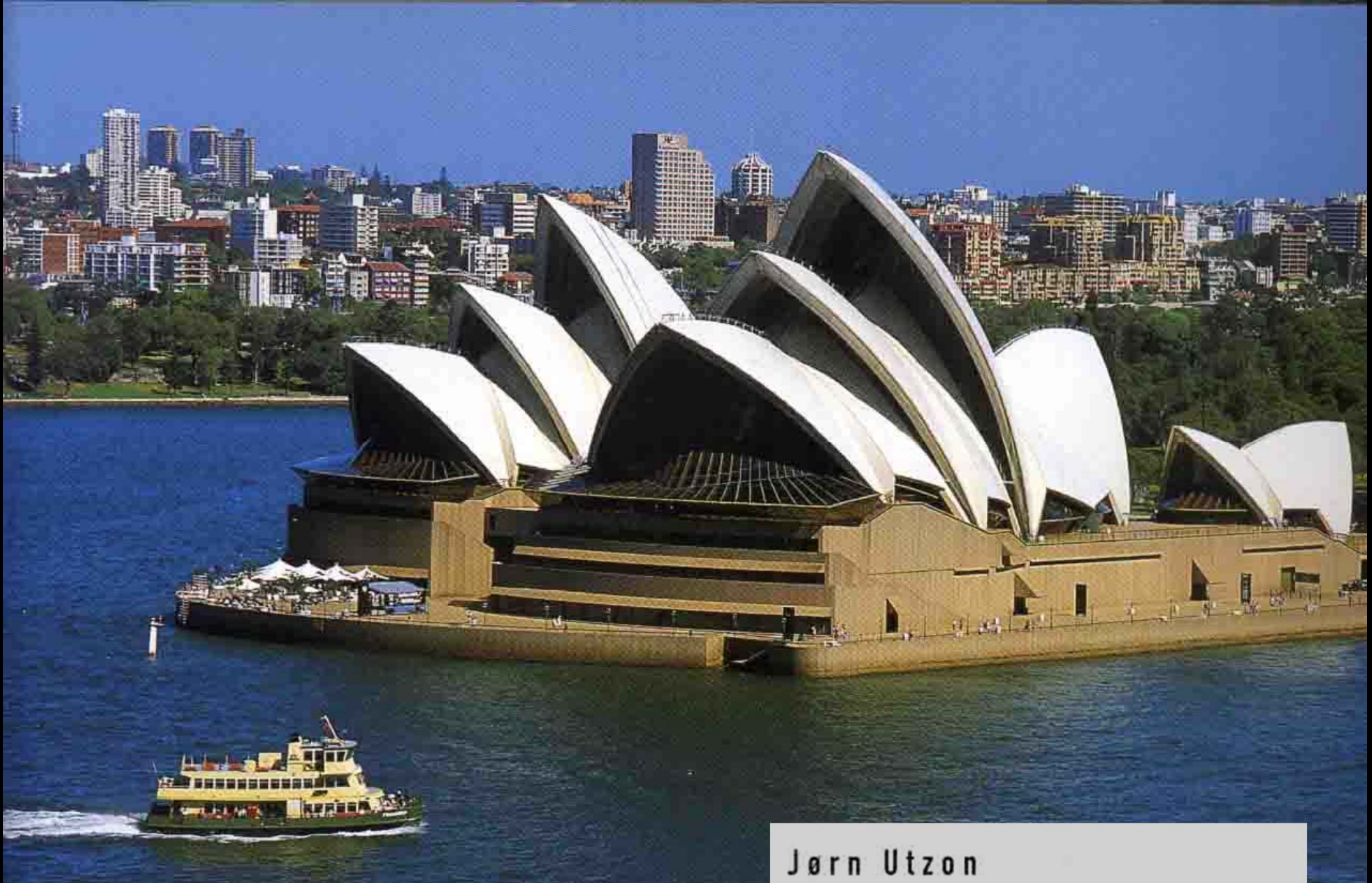
Pavilion for the World Exposition

MONTREAL 1966-1967

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1973

1970-1980



Jørn Utzon

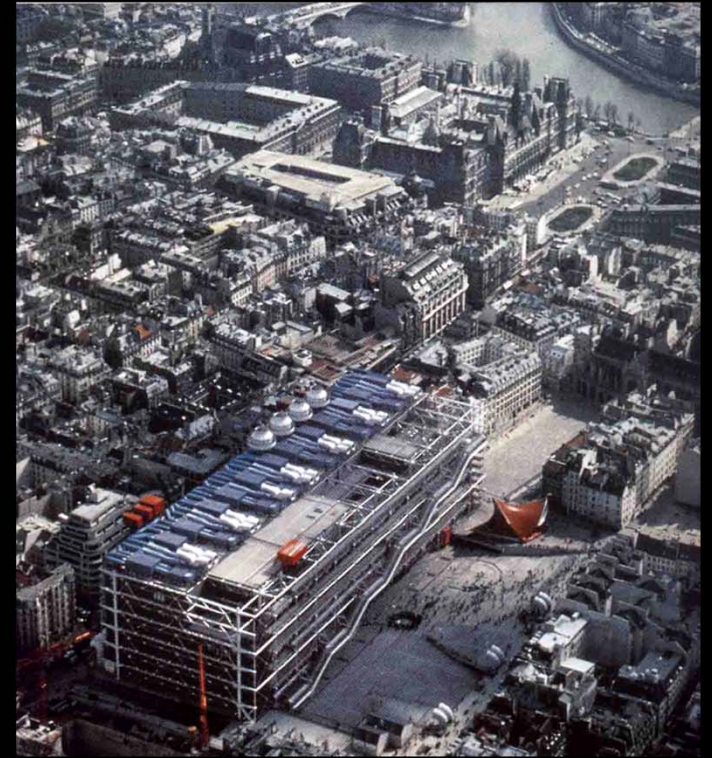
Opera House

SYDNEY 1957-1973

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1977

1970-1980



Renzo Piano and Richard Rogers

Centre Georges Pompidou

PARIS 1971-1977

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1984

1980-1990



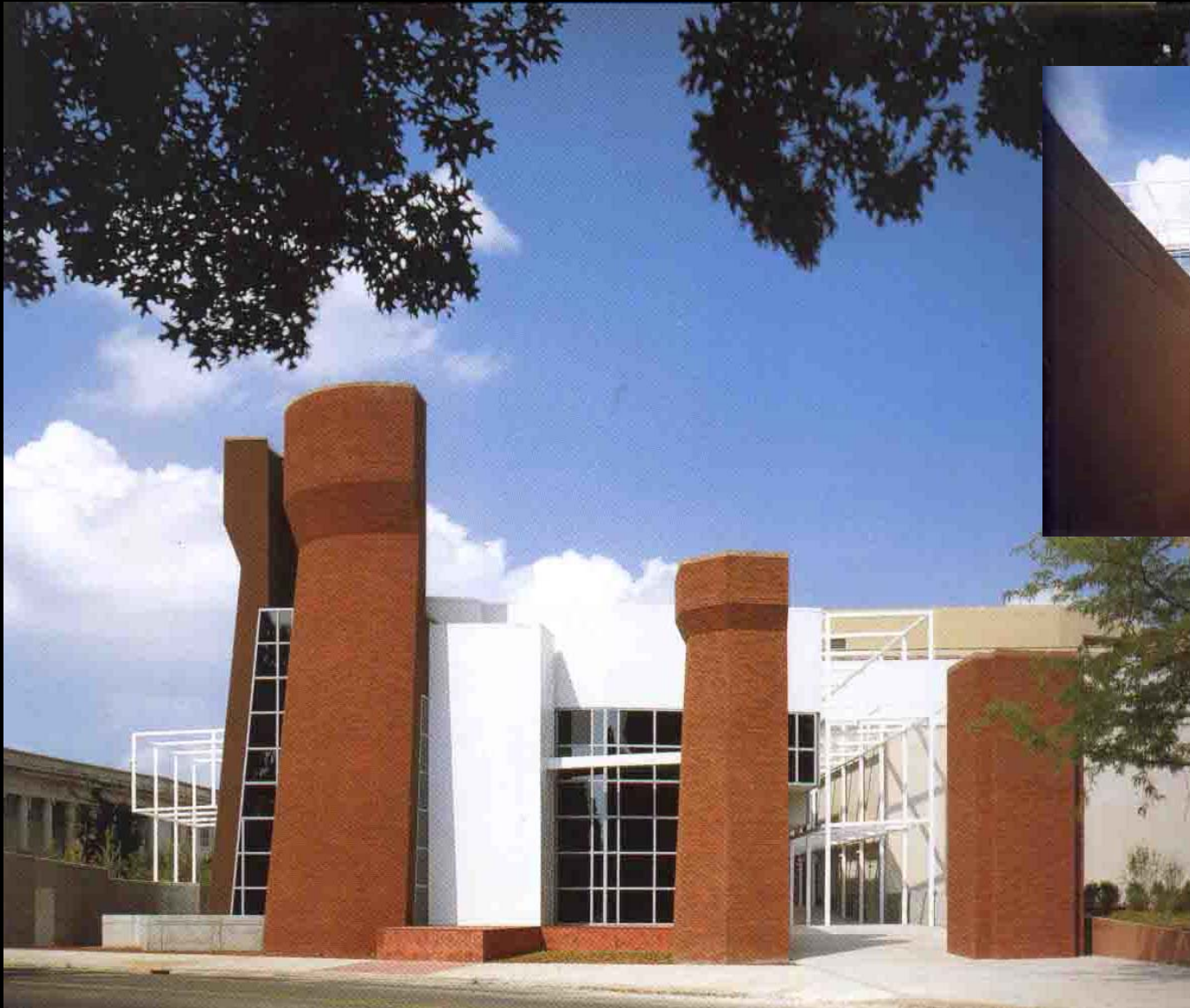
James Stirling with Michael Wilford
Neue Staatsgalerie | STUTTGART 1977-1984



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

1989

1980-1990



Peter Eisenman

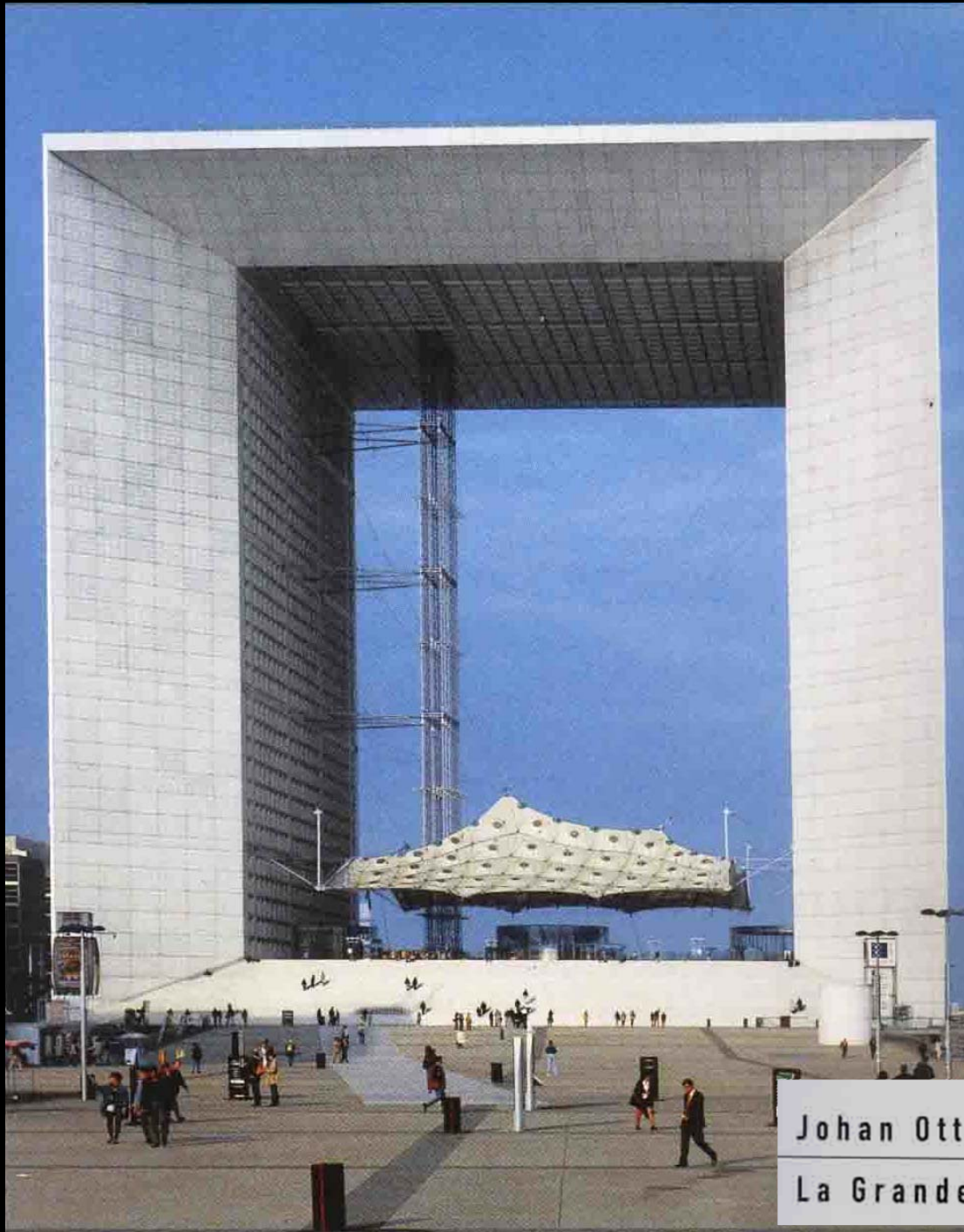
Wexner Center for the Visual Arts

COLUMBUS, OHIO 1985-1989

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1989

1980-1990



Johan Otto von Spreckelsen with Paul Andreu

La Grande Arche

PARIS 1983-1989

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1994

1990-2000



Santiago Calatrava

Satolas TGV Station

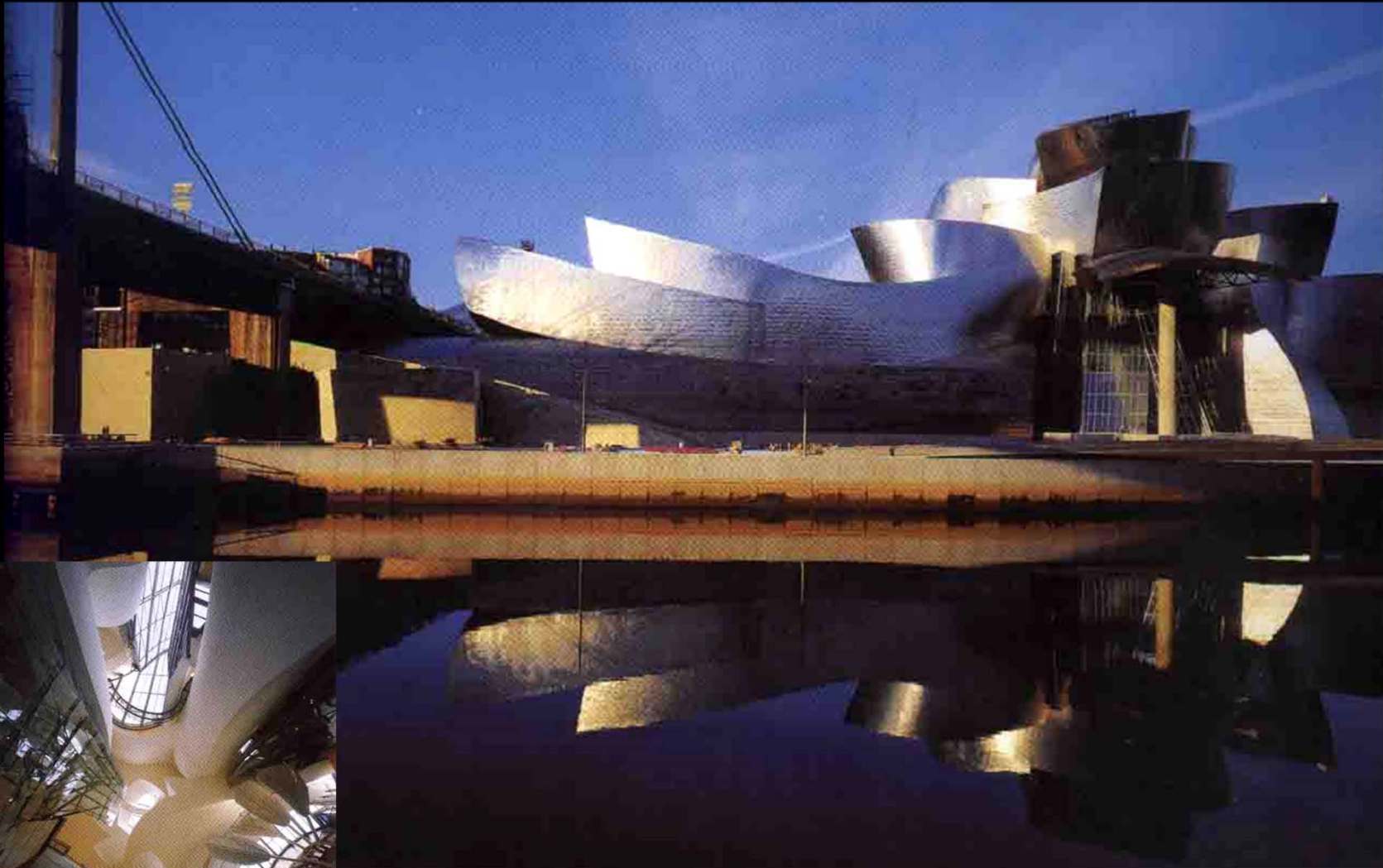
LYON (FRANCE) 1990-1994



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1997

1990-2000



Frank O. Gehry

Guggenheim Museum

BILBAO 1993-1997

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

1998

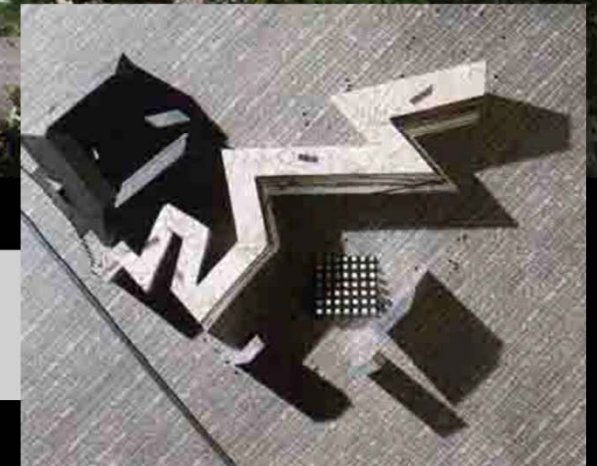
1990-2000



Daniel Libeskind

Berlin Museum Extension

BERLIN 1989-1998



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

2000

1990-2000



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

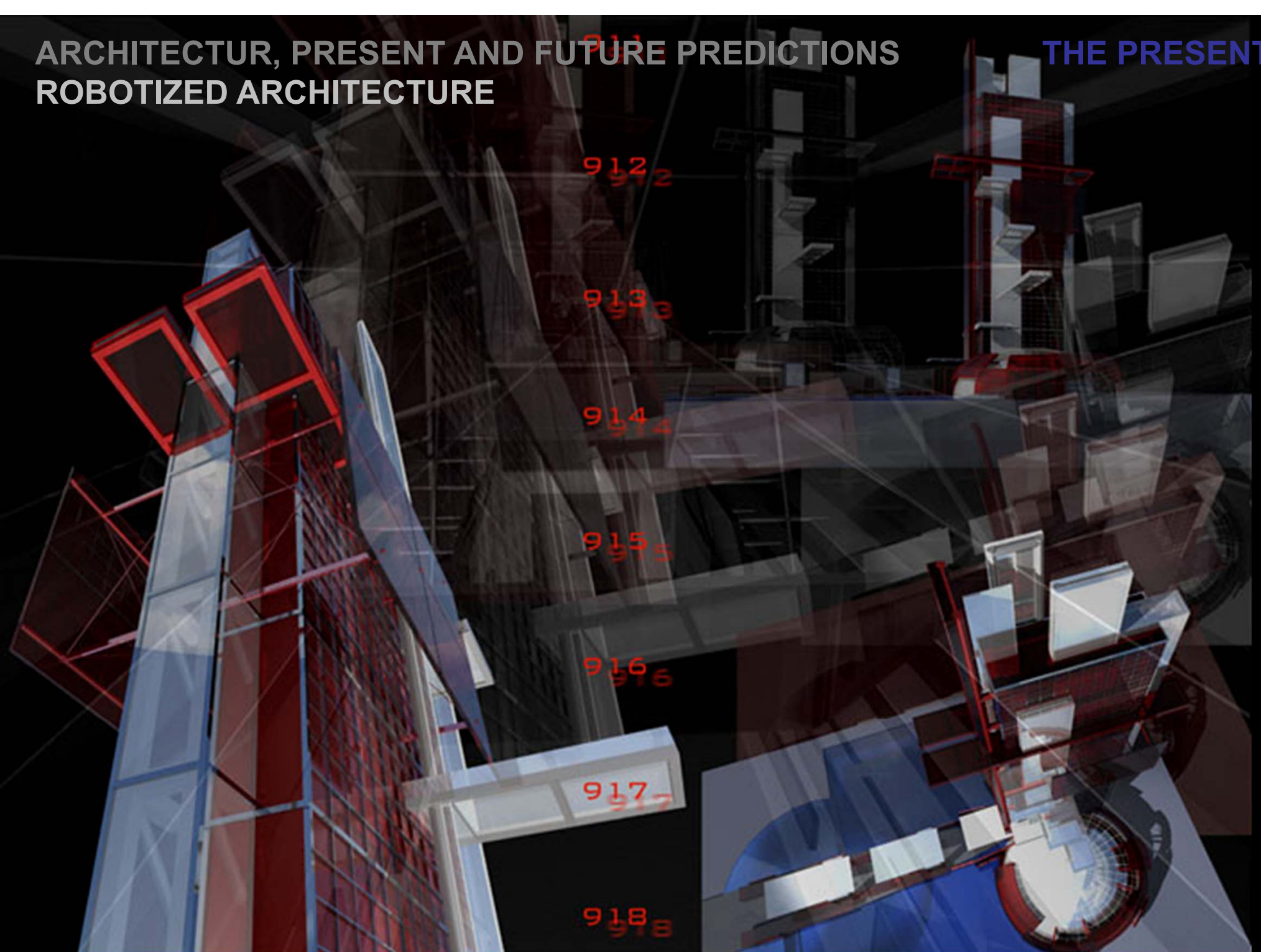
ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

THE PRESENT

DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

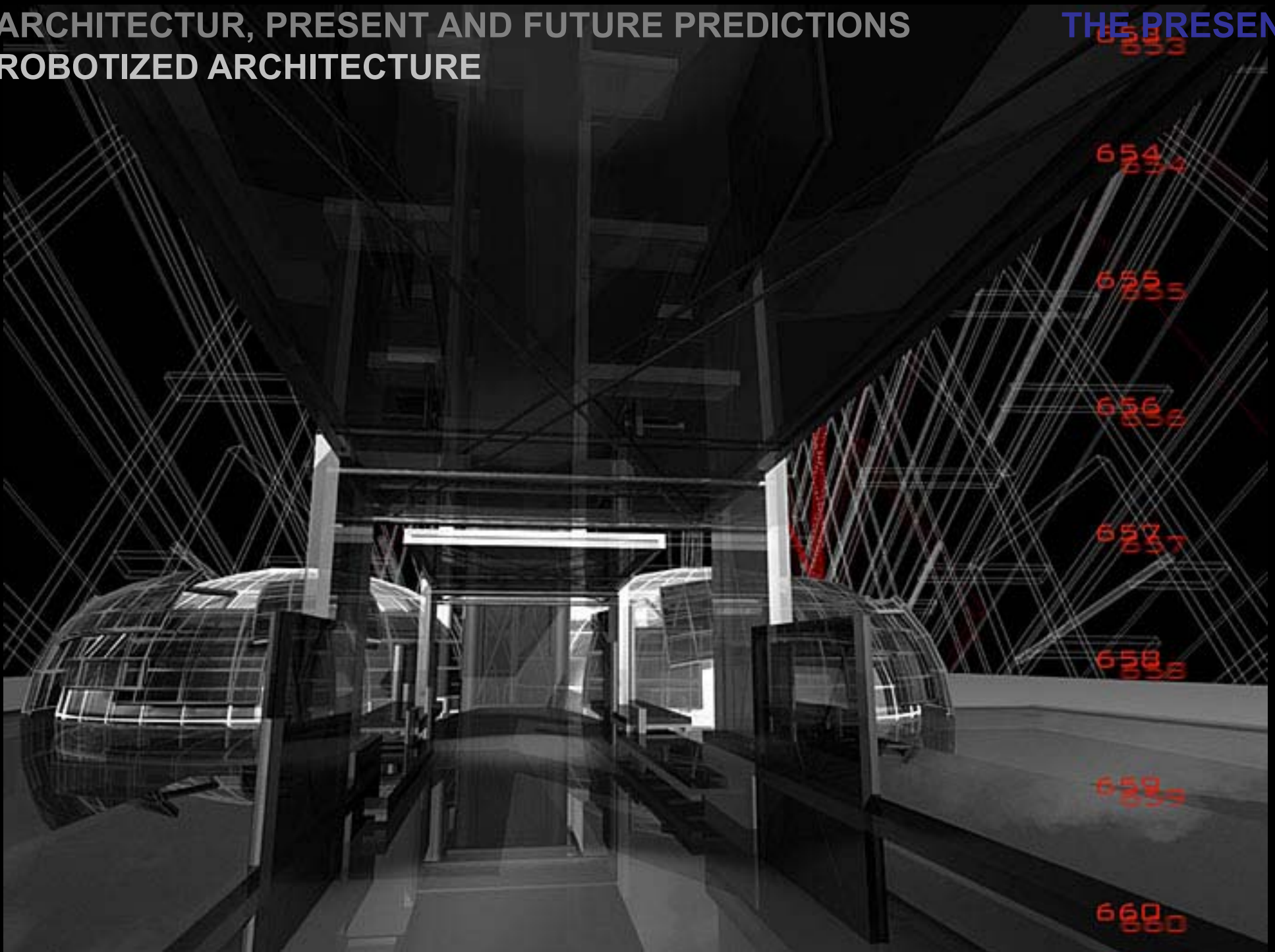
THE PRESENT



DIGITAL DESIGN PROCESS

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

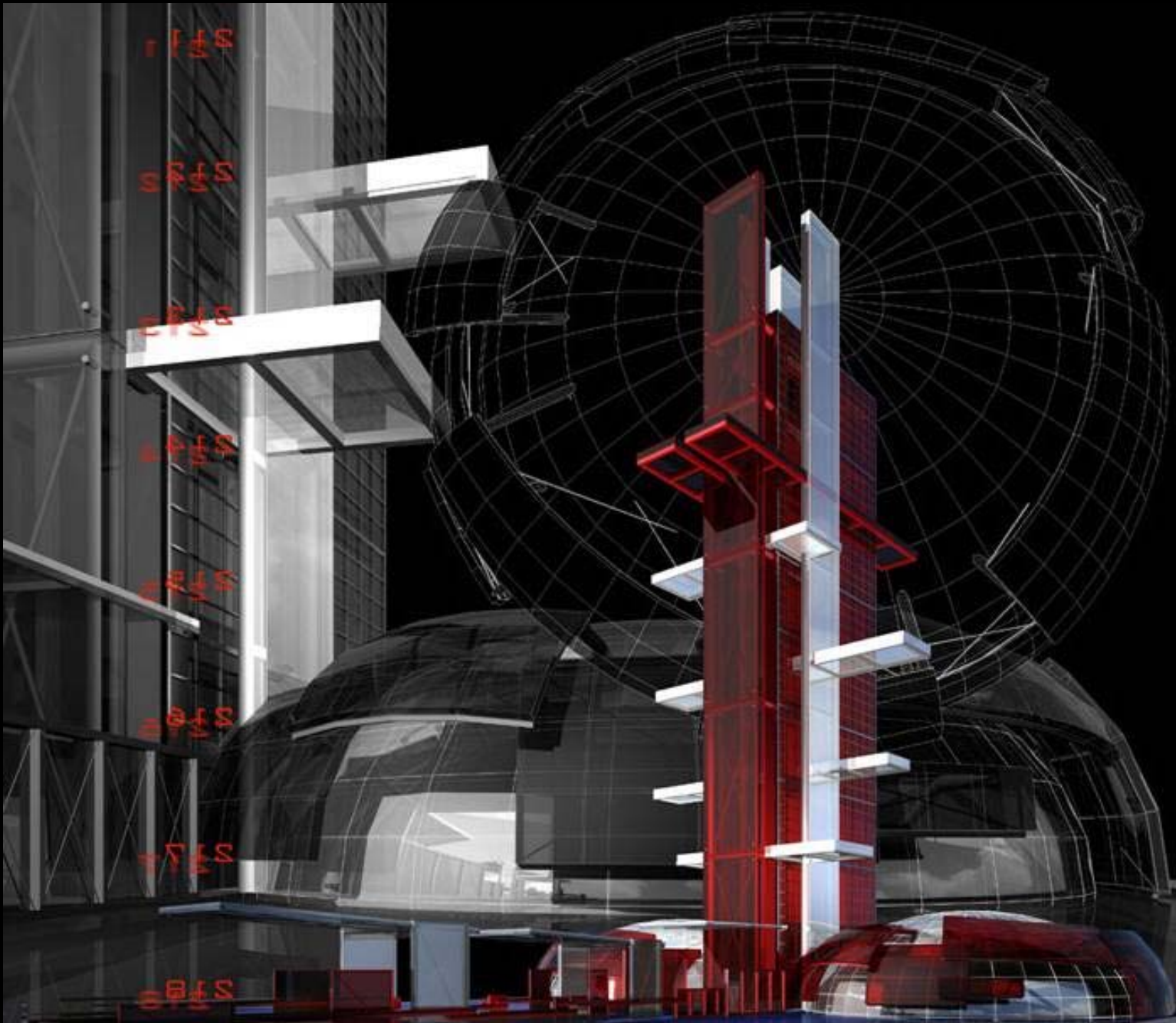
THE PRESENT



DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

THE PRESENT



DIGITAL DESIGN PROCESS

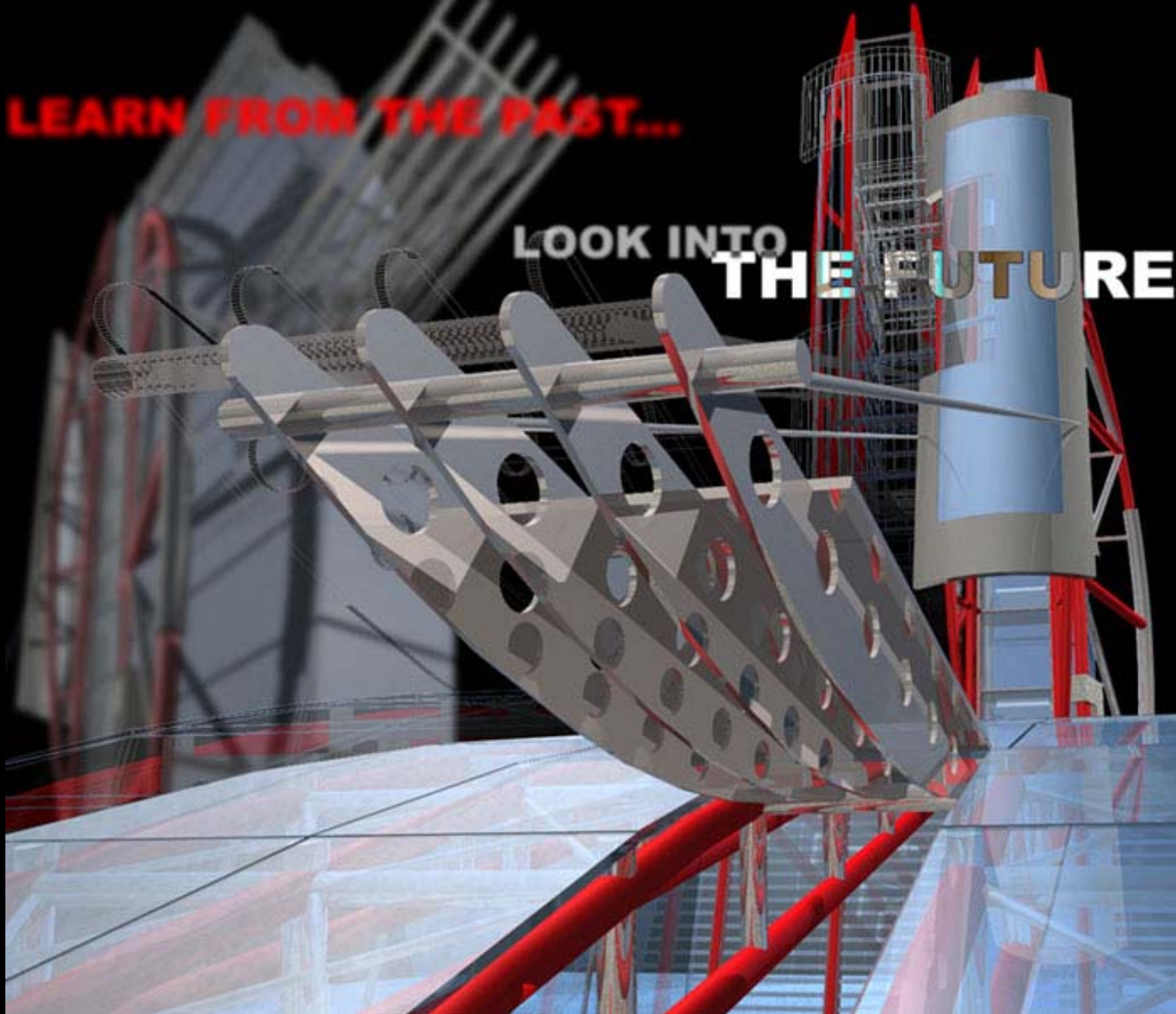
ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

THE PRESENT

LEARN FROM THE PAST...

LOOK INTO

THE FUTURE



DIGITAL DESIGN PROCESS

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

THE PRESENT

"Don't give up, don't ever give up"
-Jim Valvano



DIGITAL DESIGN PROCESS

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

THE PRESENT



DIGITAL DESIGN PROCESS

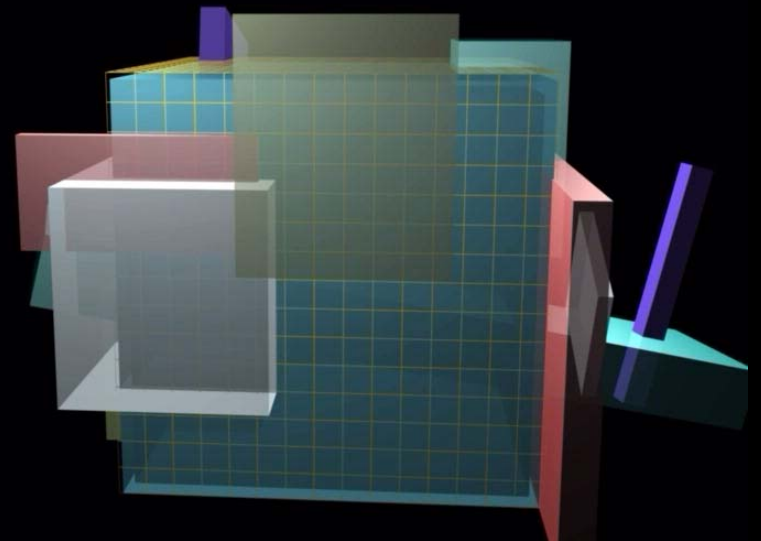
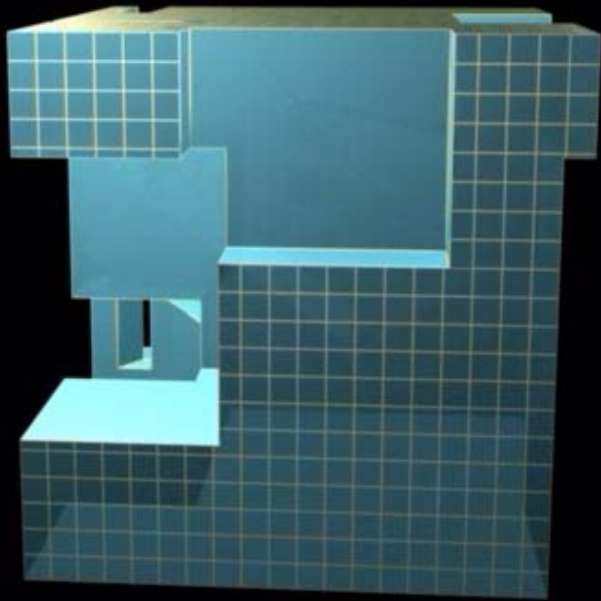
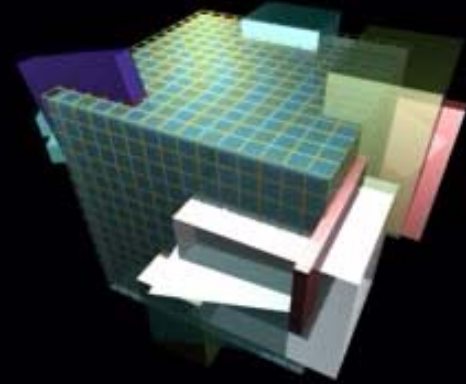
ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

THE PRESENT

SPACE - FORM TRANSFORMATION

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

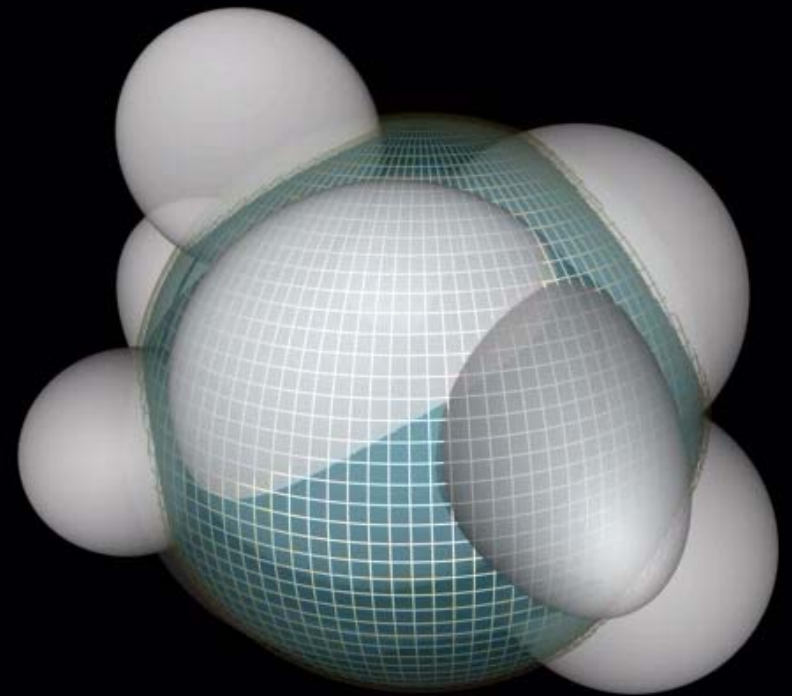
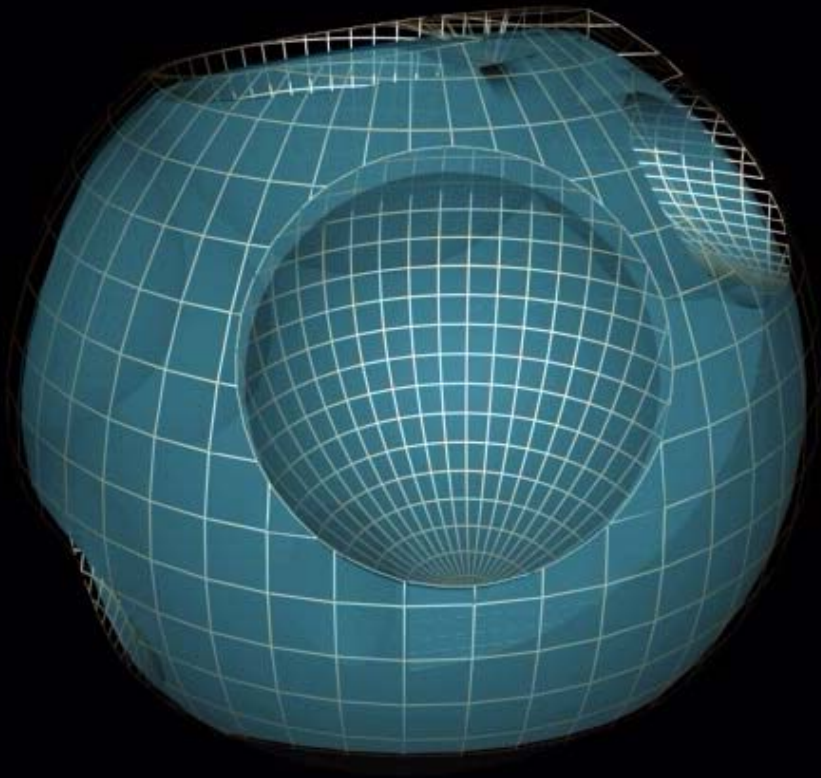
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

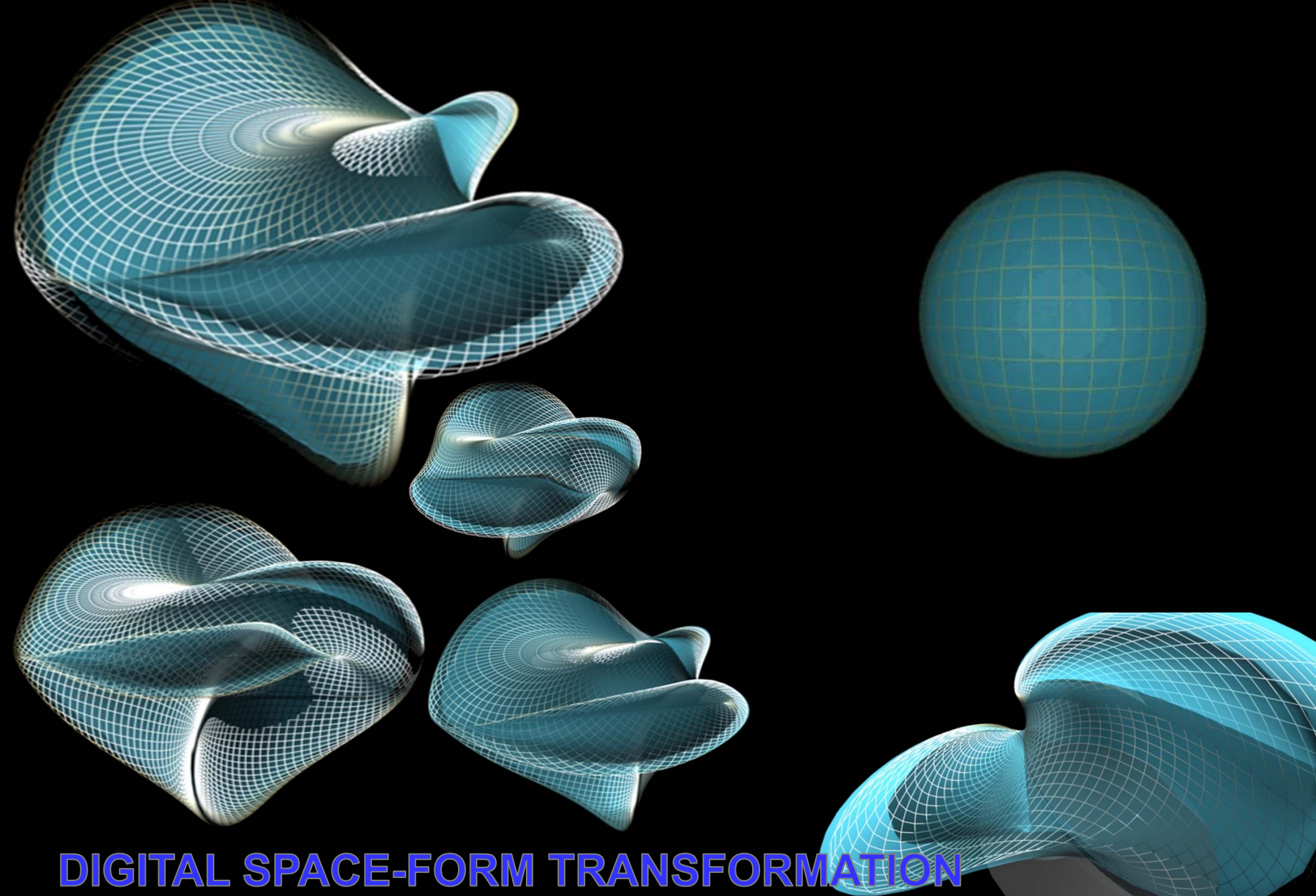
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

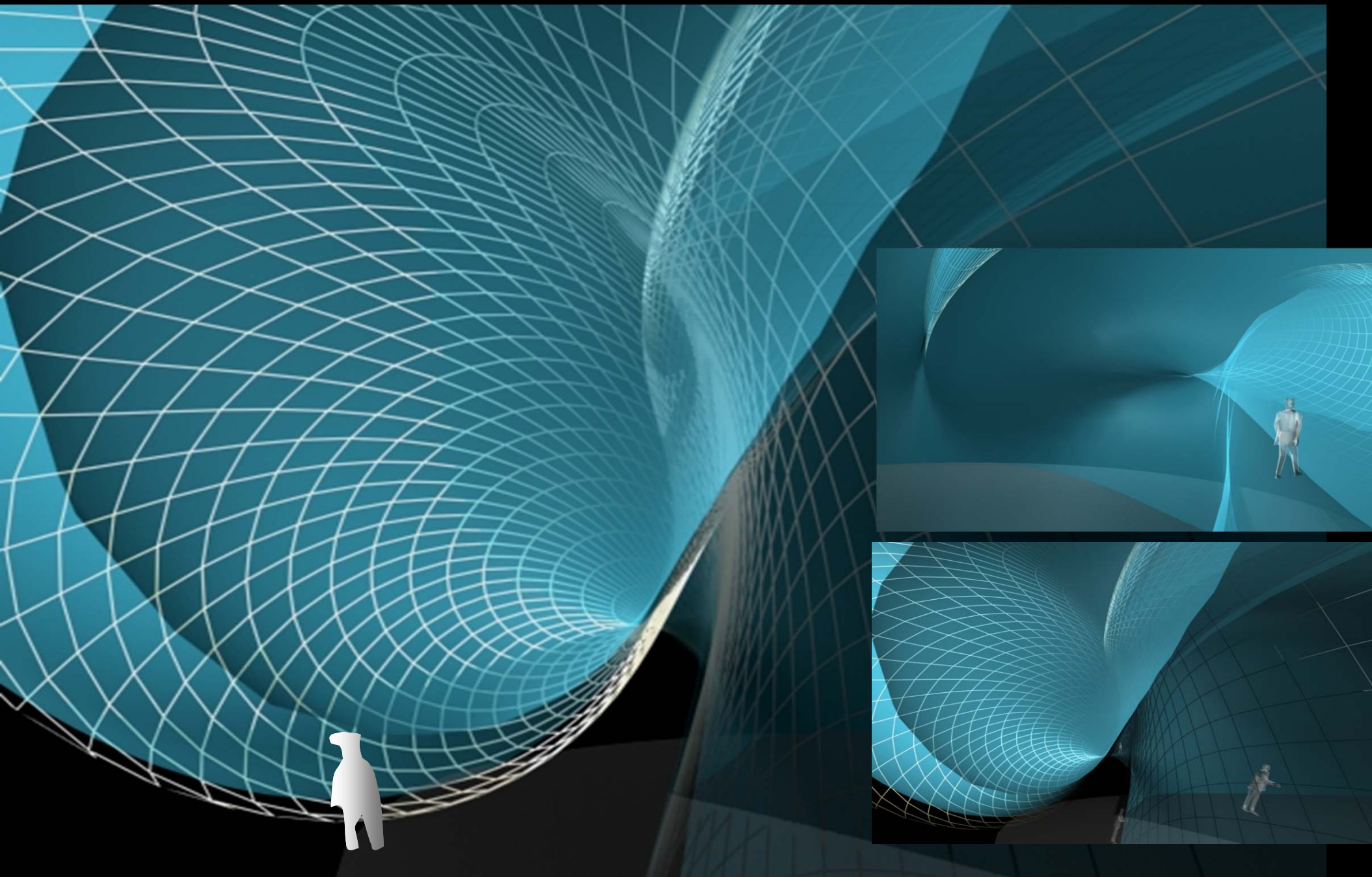
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

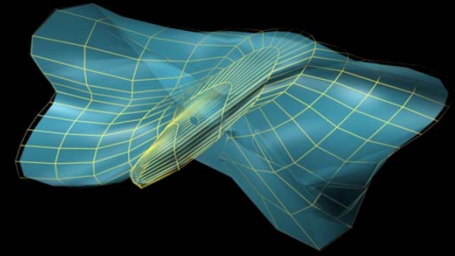
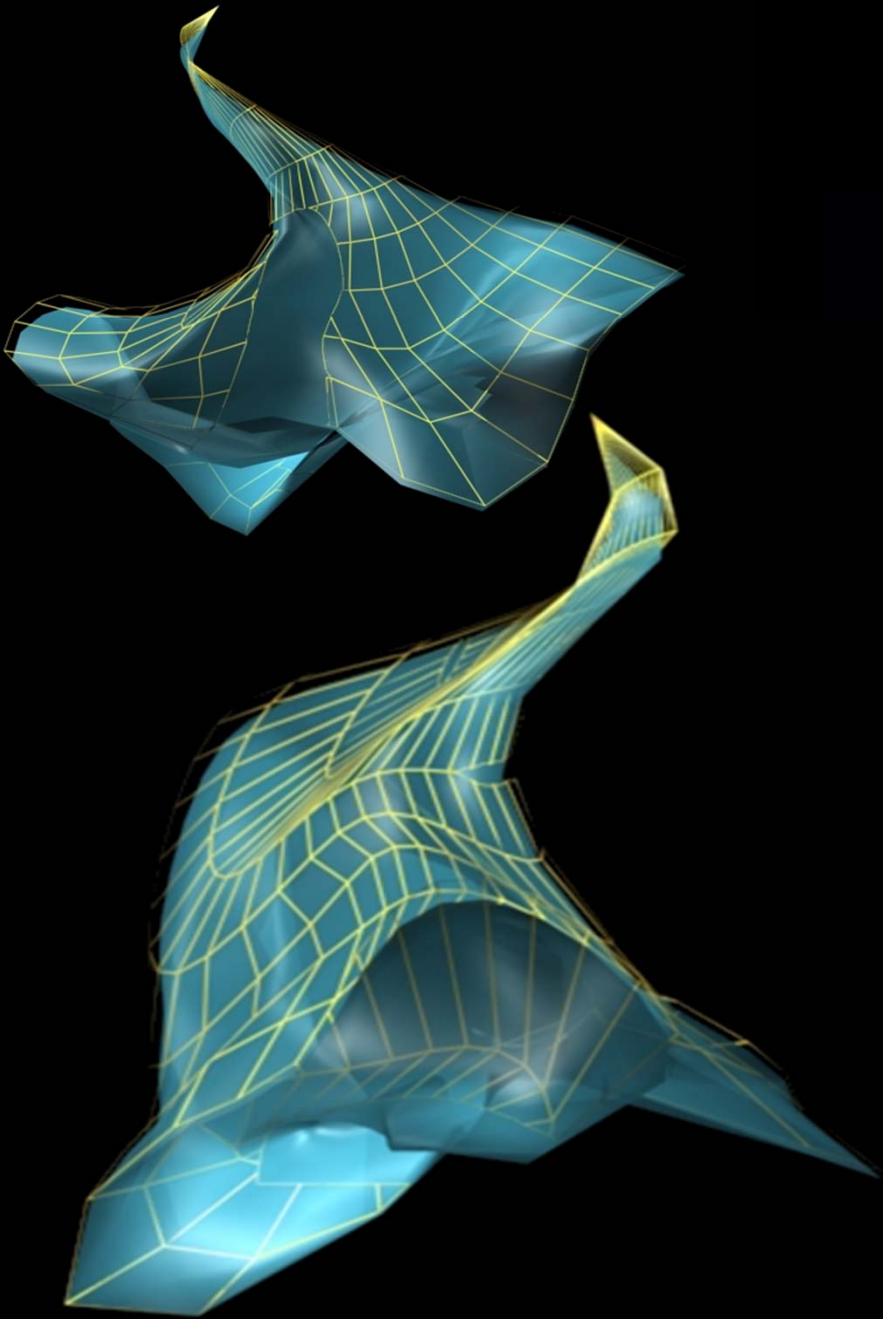
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

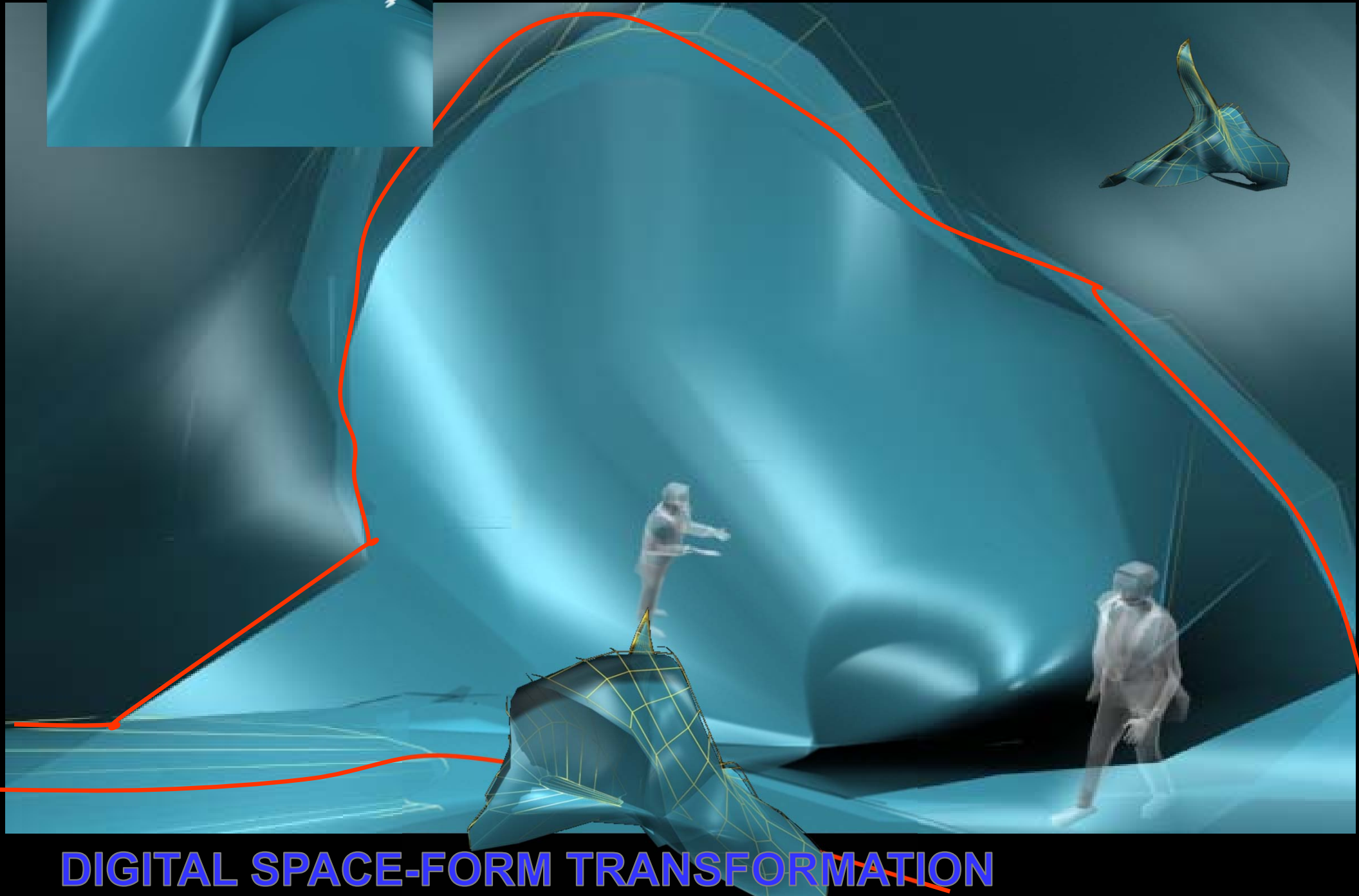
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

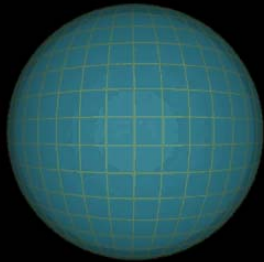
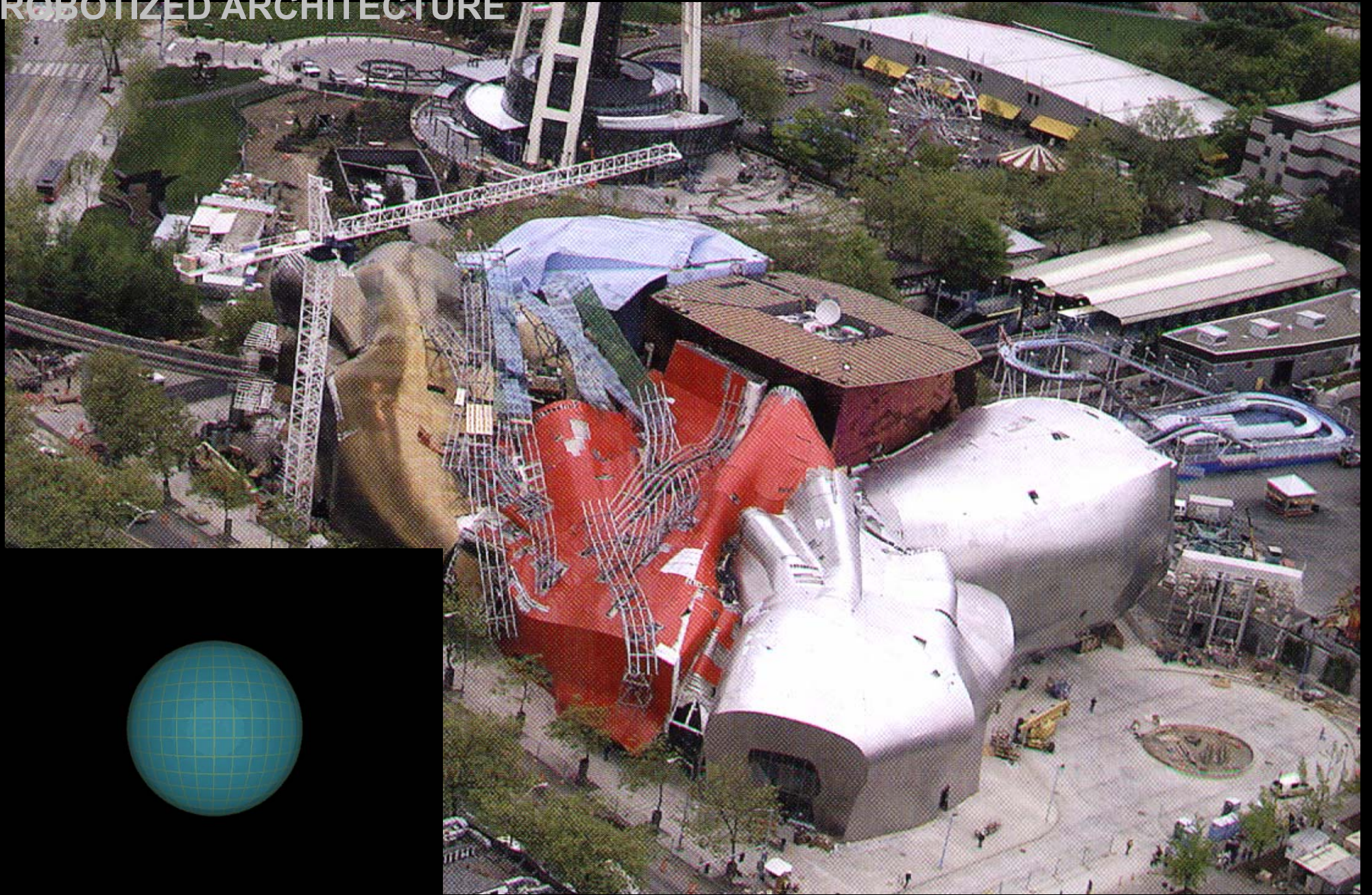
THE PRESENT



DIGITAL SPACE-FORM TRANSFORMATION

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

DIGITALTRANSFORMATION OF SPACE-FORM

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

PRESENT
2000



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT
2000



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE



PRESENT
2000



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

PRESENT
2000



FRANK O. GEHRY MUSIC MUSEUM / U.S.A. 2000

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

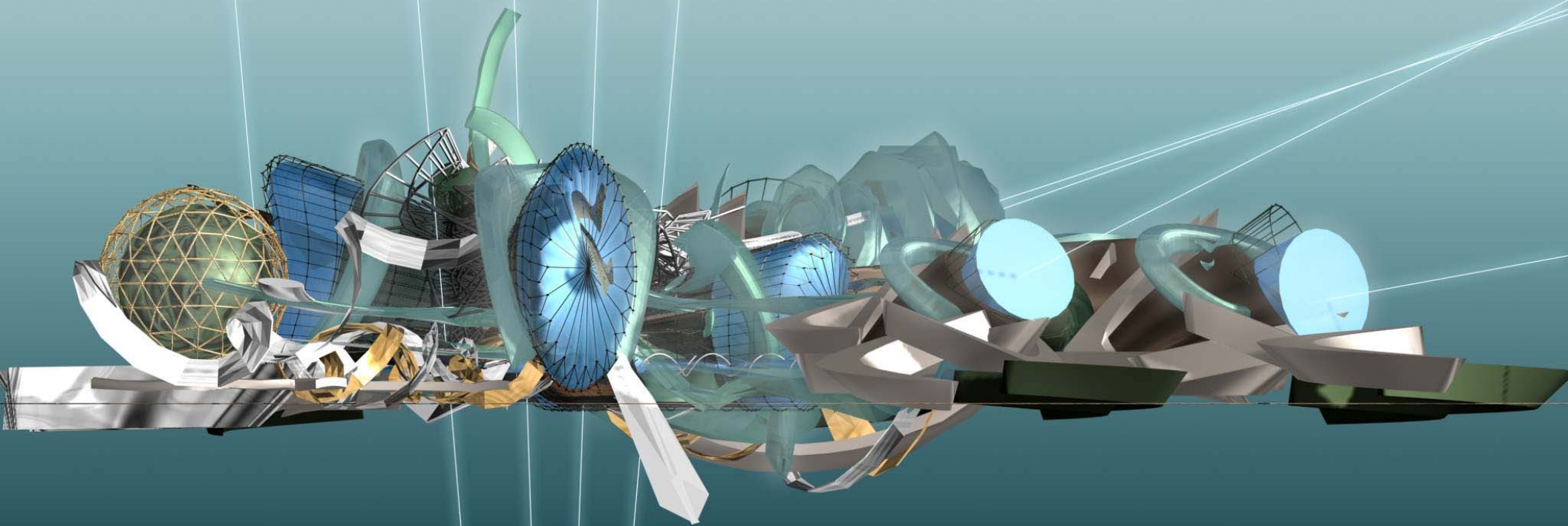
THE PRESENT

DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE

PRESENT



DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE

PRESENT



DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT

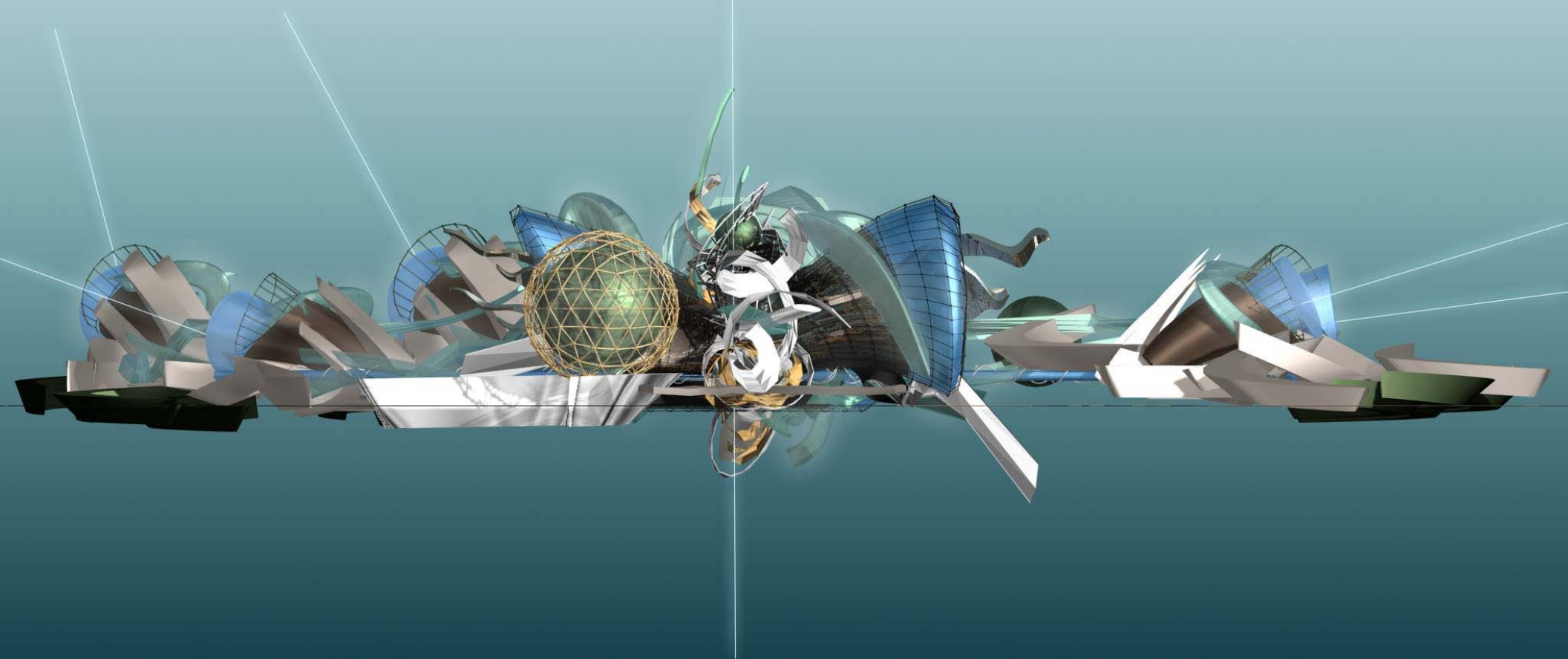


DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE

PRESENT



DIGITAL DESIGN PROCESS

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

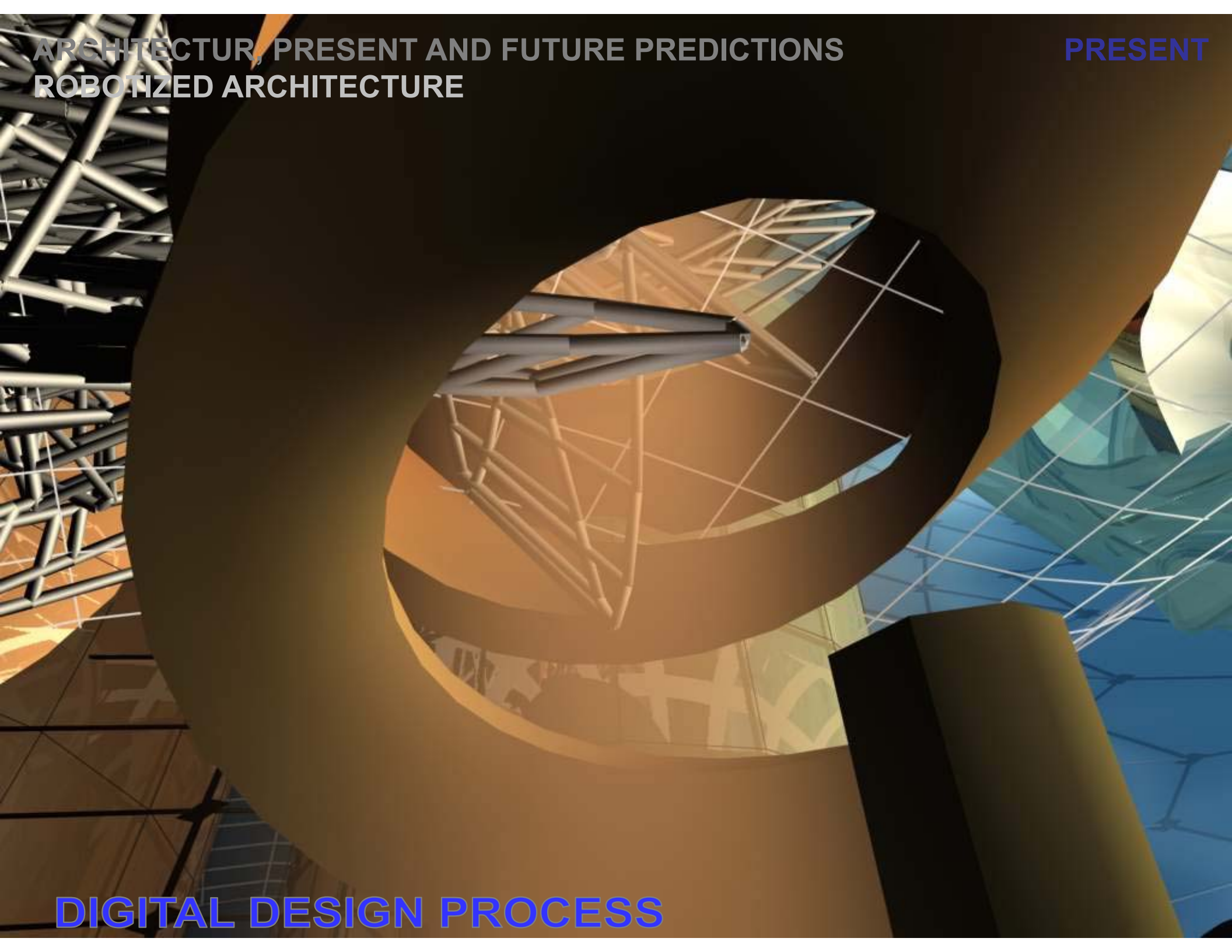
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DIGITAL DESIGN PROCESS

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

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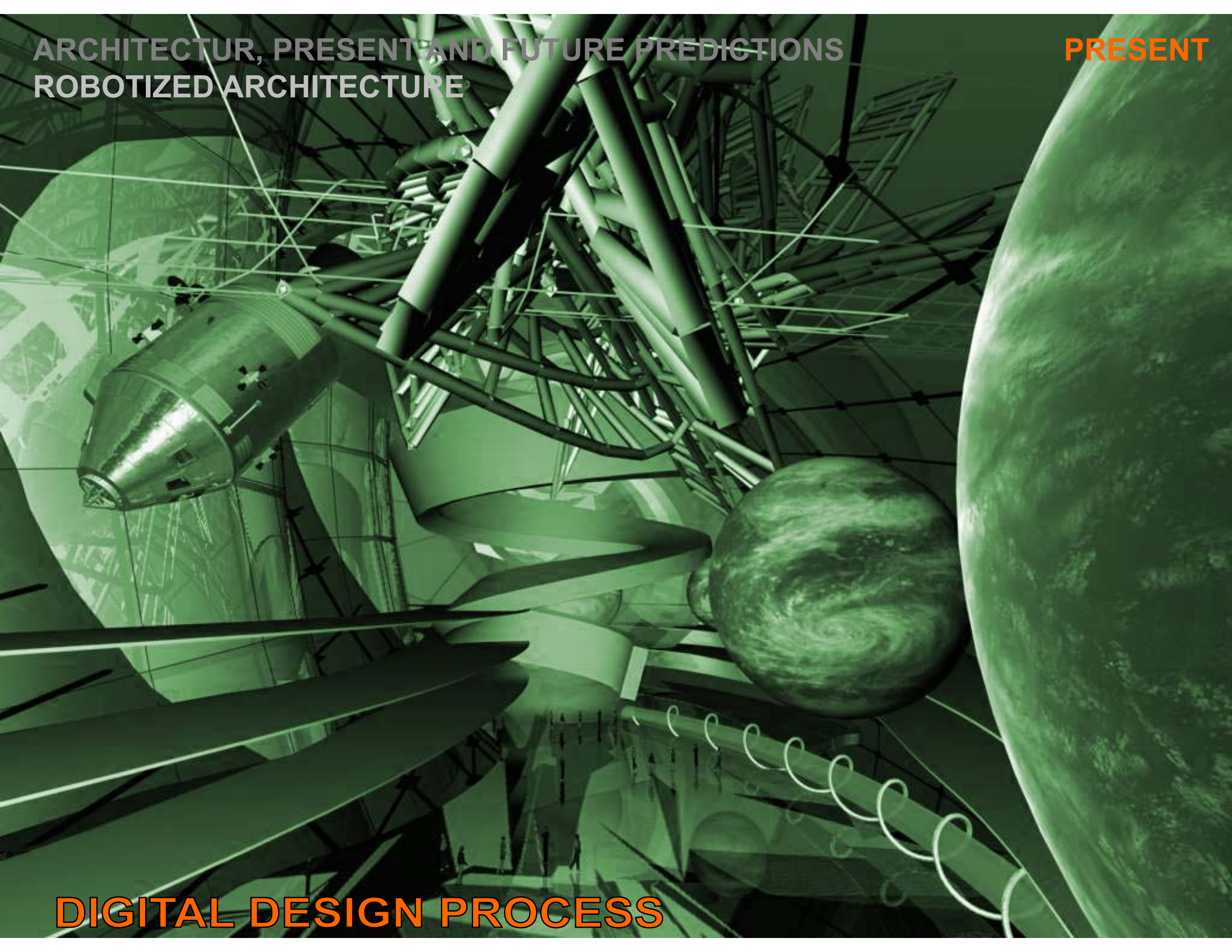
DIGITAL DESIGN PROCESS



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

PRESENT

DIGITAL DESIGN PROCESS



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

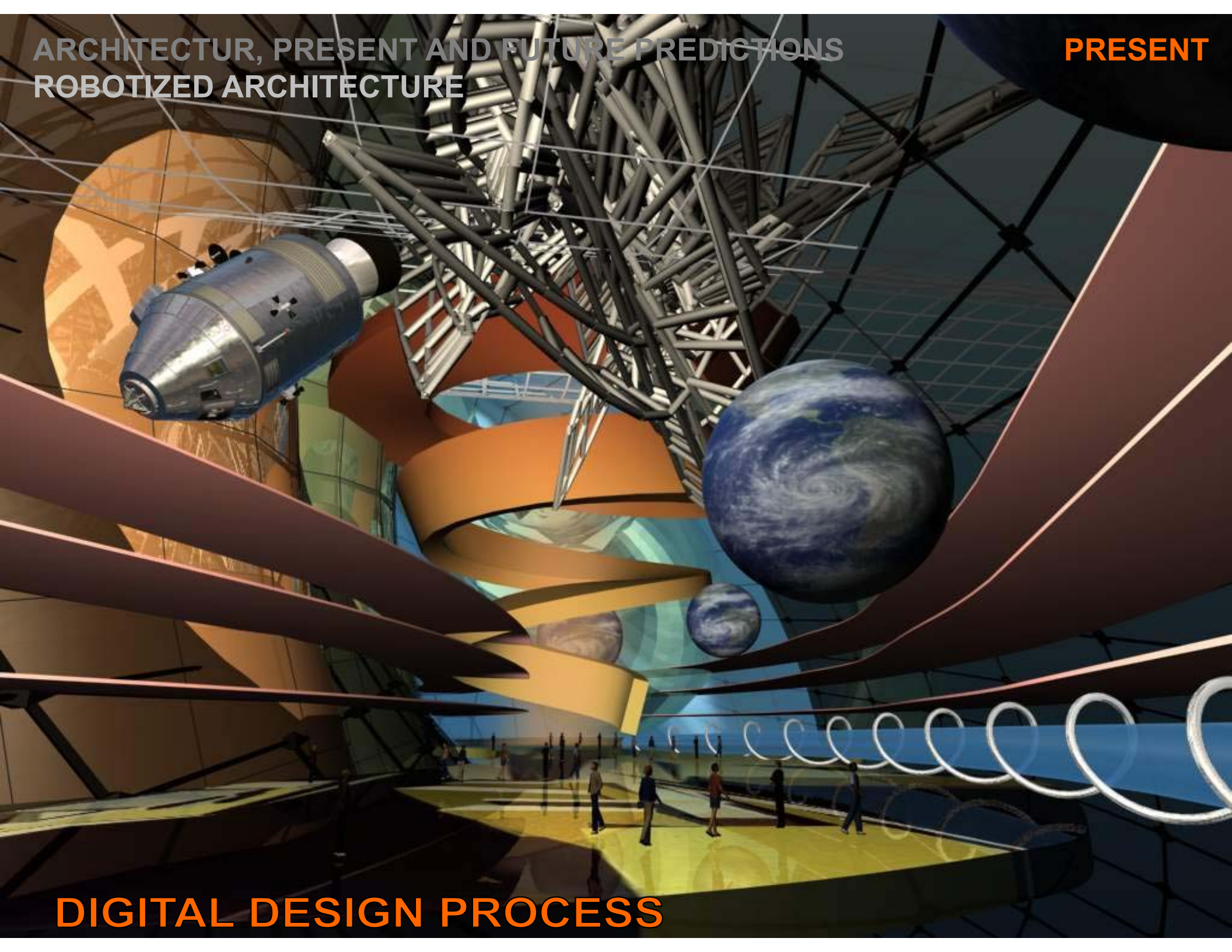
PRESENT

DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

PRESENT

DIGITAL DESIGN PROCESS

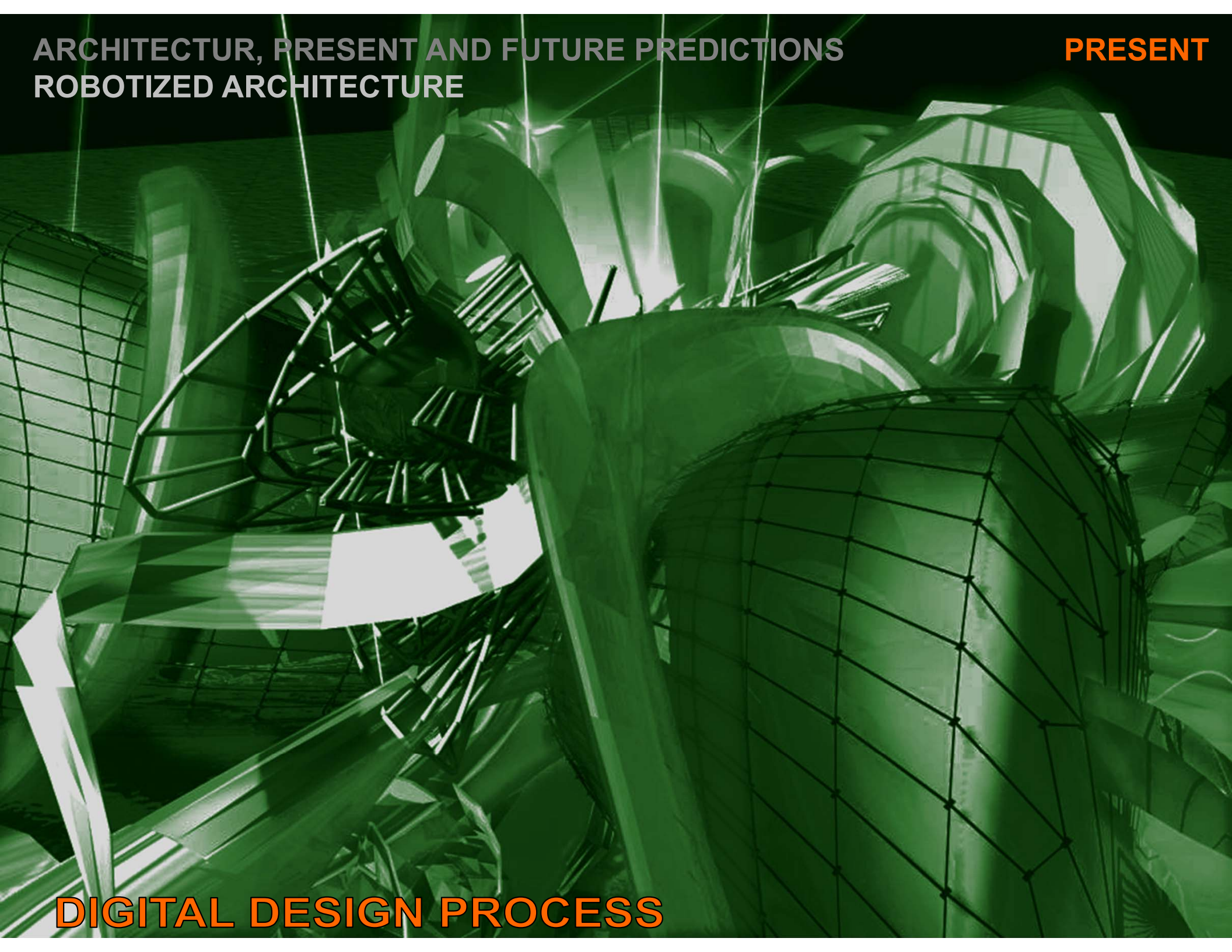


An abstract architectural rendering featuring a complex, multi-layered structure. The scene is dominated by green and white geometric forms, including a large, curved, wireframe-like structure on the right and a central, more solid, white structure. The overall composition is dynamic and futuristic, suggesting a digital design process.

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

PRESENT

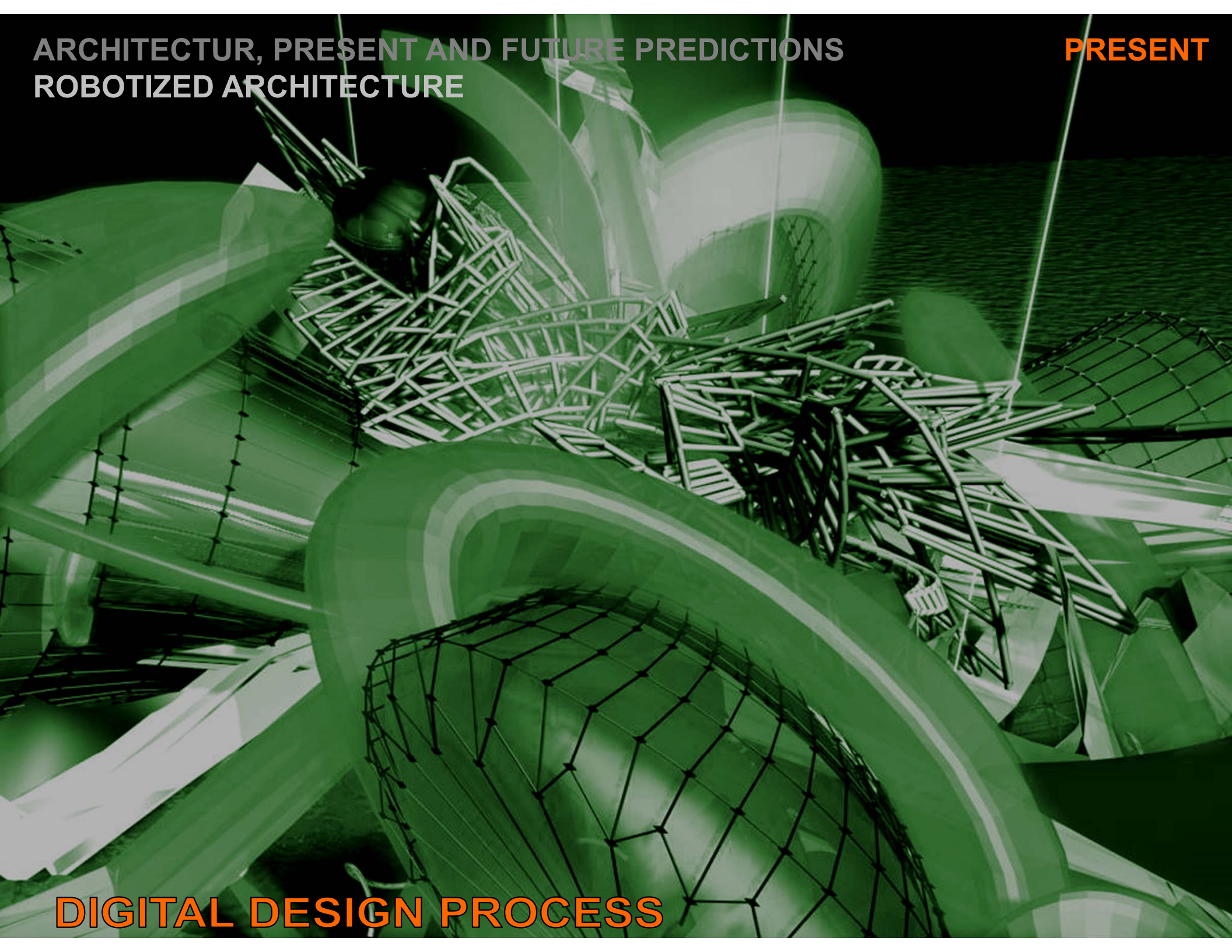
DIGITAL DESIGN PROCESS

An abstract, monochromatic green architectural rendering. The image features complex, layered geometric forms, including a prominent wireframe sphere in the foreground and various angular, crystalline structures in the background. The lighting creates strong highlights and shadows, emphasizing the three-dimensional quality of the design.

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT

DIGITAL DESIGN PROCESS

An abstract architectural rendering featuring a complex, overlapping structure of green and white geometric forms. A prominent wireframe mesh is visible in the foreground, suggesting a digital or robotic design process. The overall aesthetic is futuristic and technological.

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

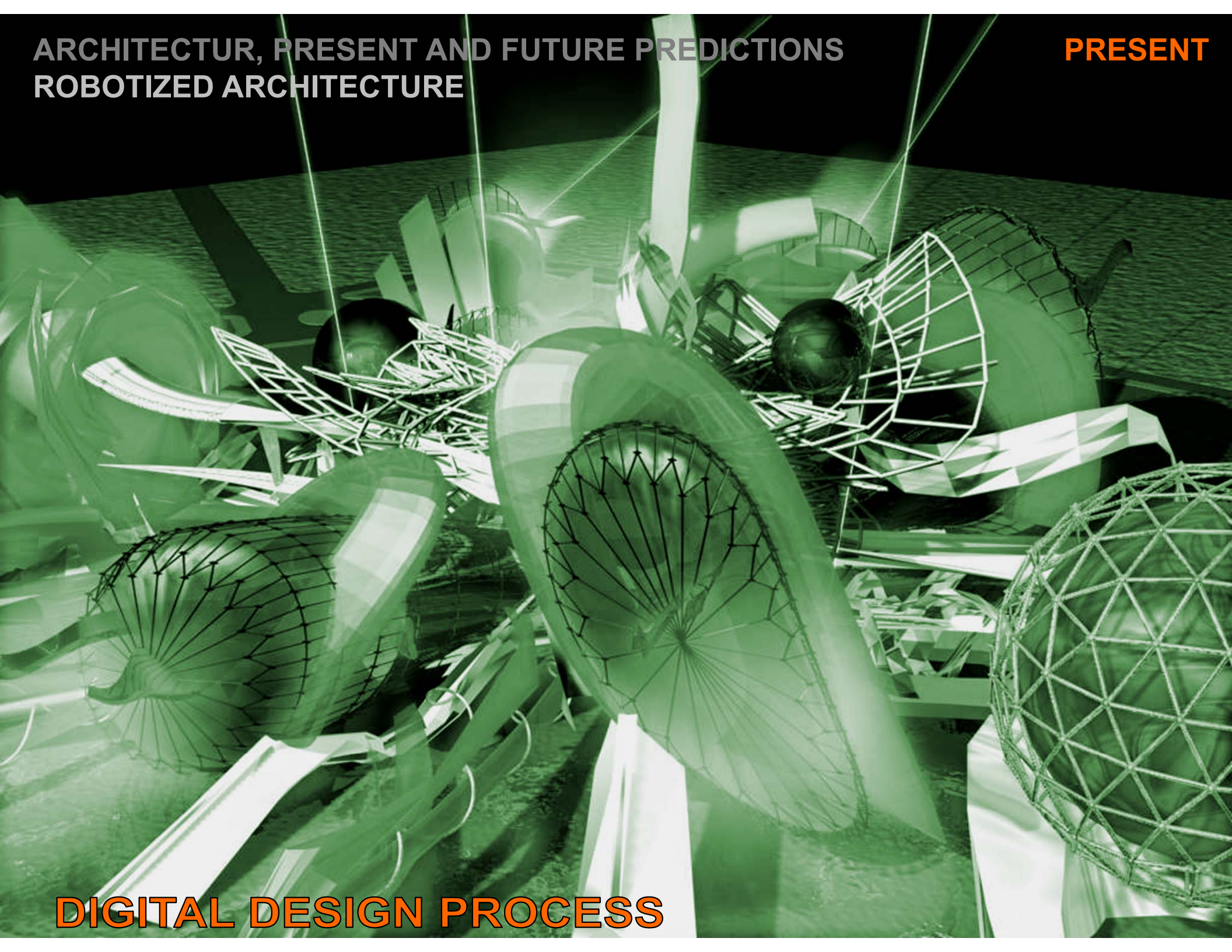
PRESENT

DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT

DIGITAL DESIGN PROCESS



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

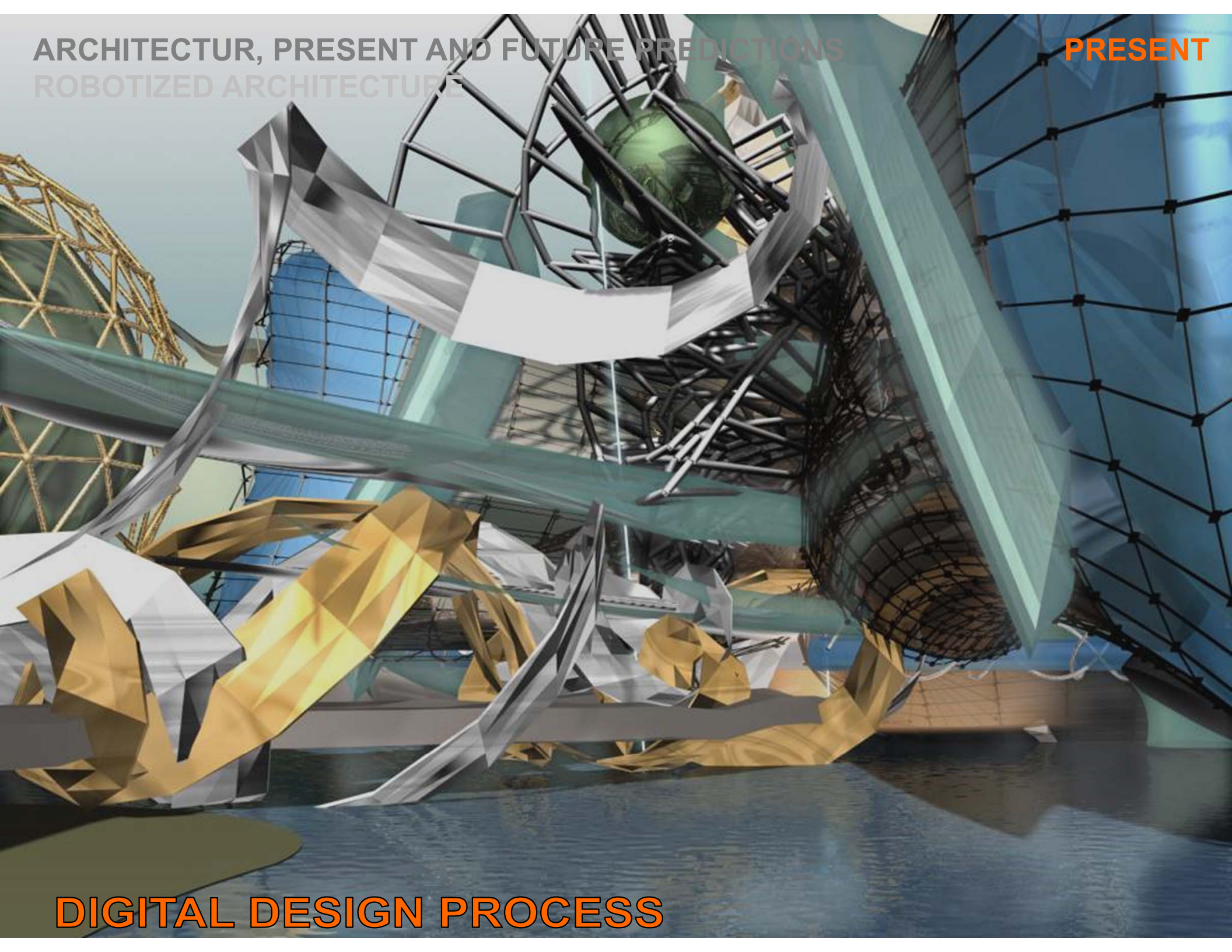
PRESENT

DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

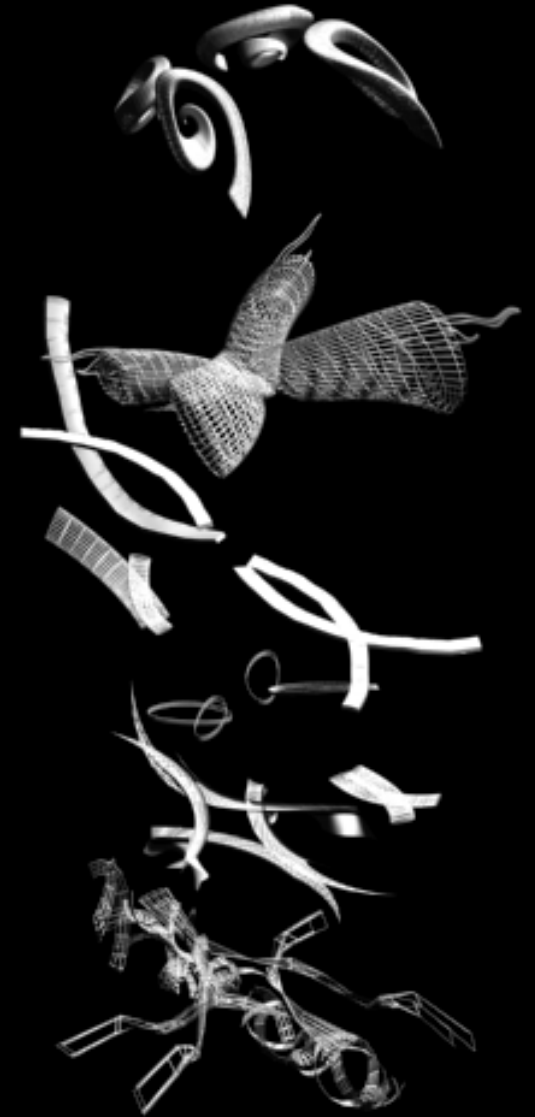
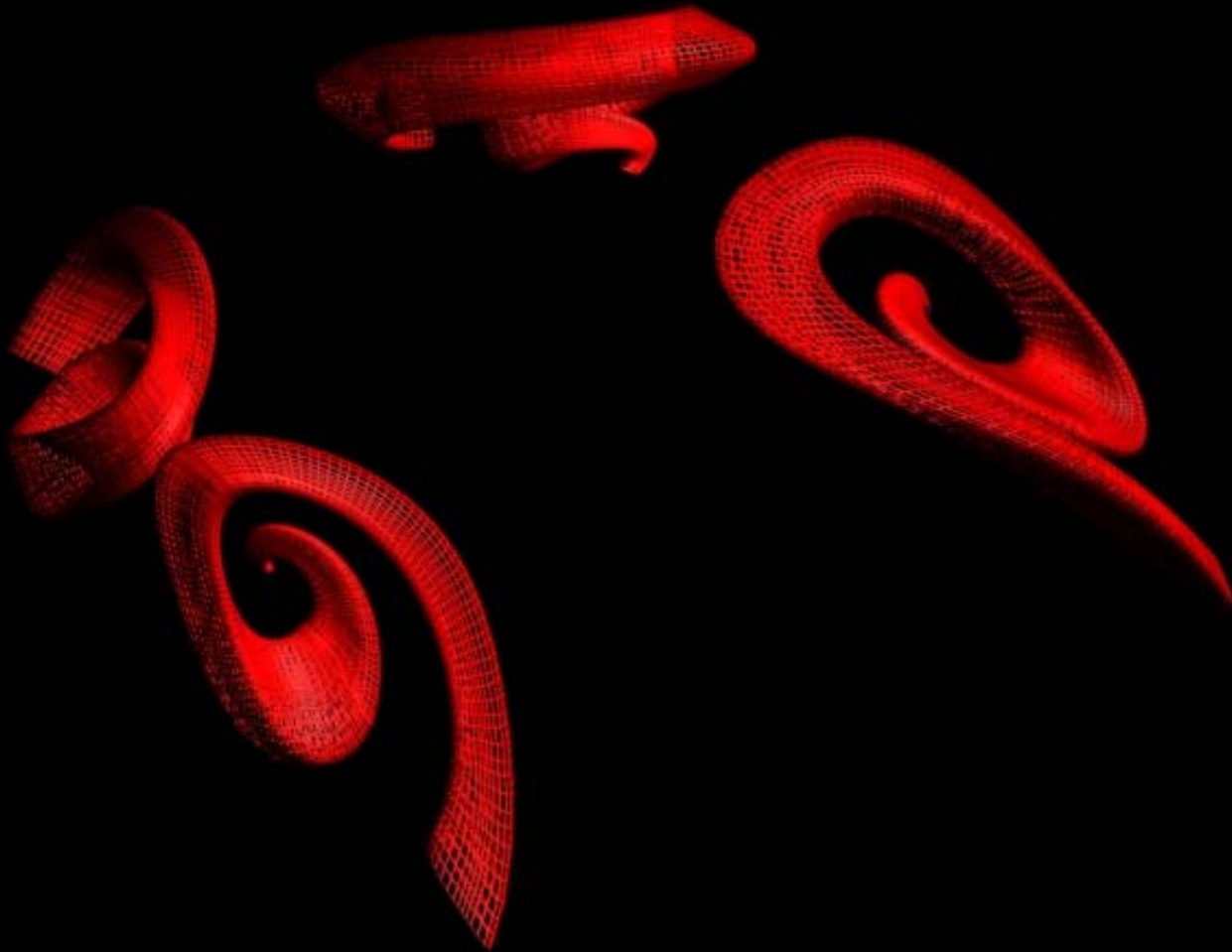
PRESENT

DIGITAL DESIGN PROCESS



ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT



DIGITAL DESIGN PROCESS

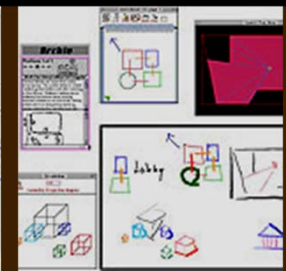
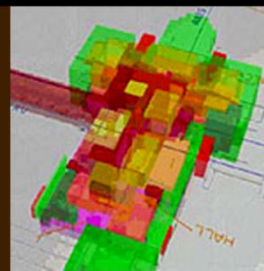
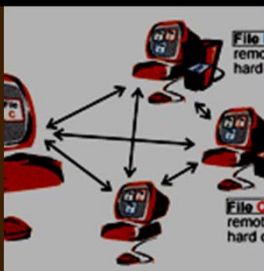
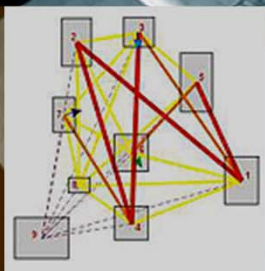
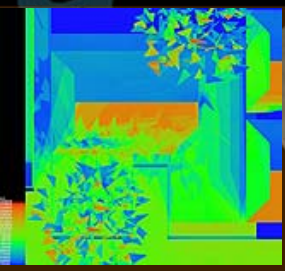
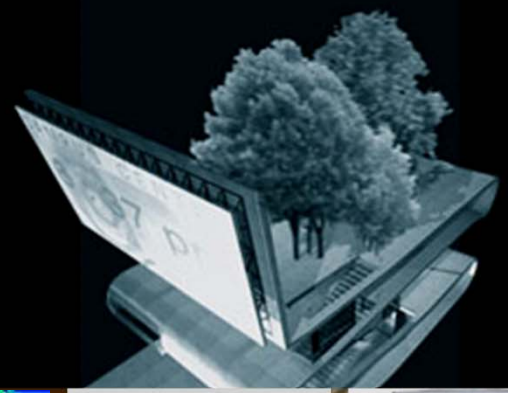
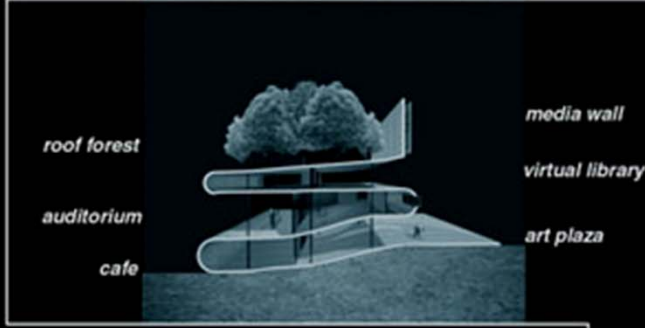
ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

THE PRESENT

THE FUTURE OF VIRTUAL REALITY



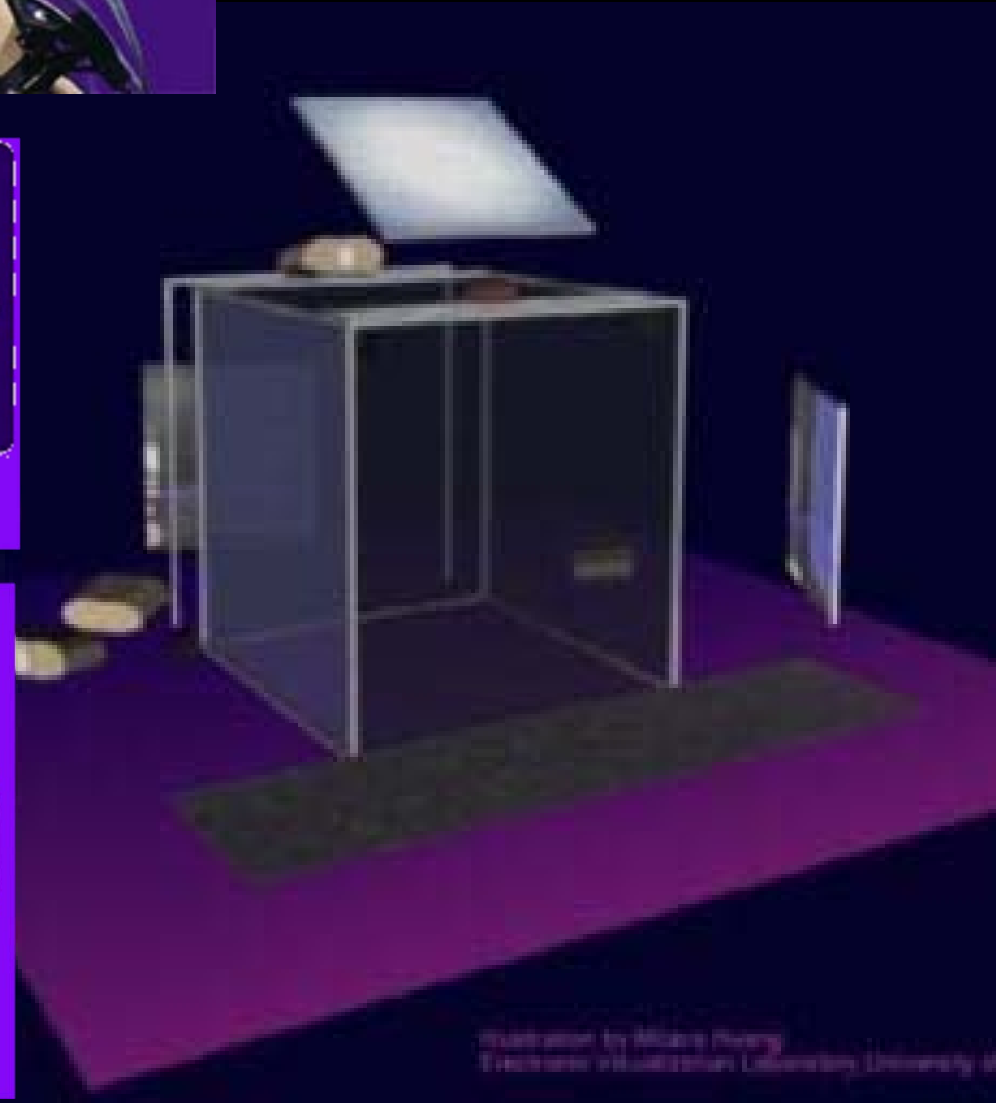
ROBOTIZED ARCHITECTURE



ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT

VIRTUAL REALITY TOOLS



DIGITAL DESIGN PROCESS - VIRTUAL REALITY

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

PRESENT

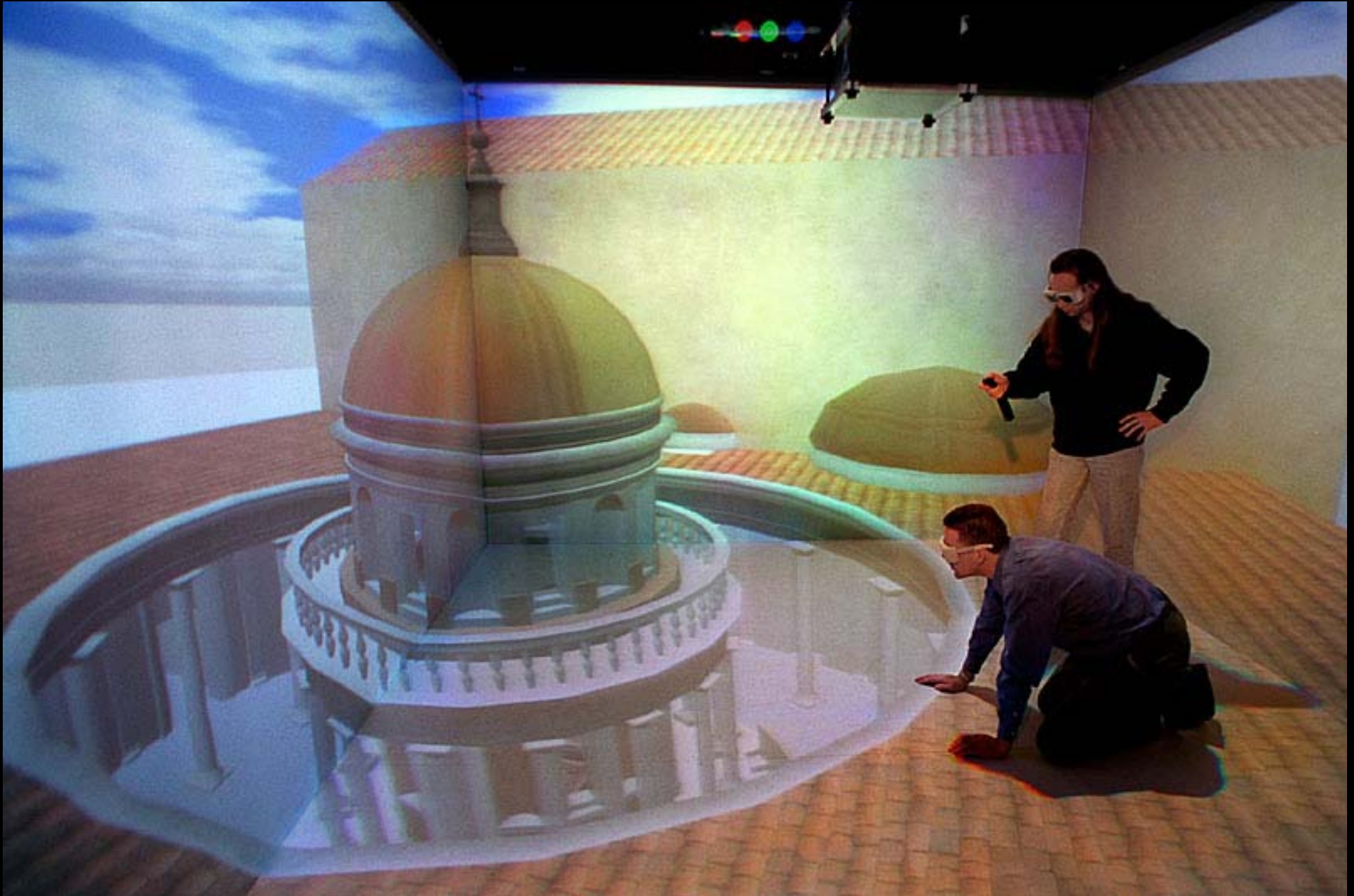
VIRTUAL REALITY TOOLS



DIGITAL DESIGN PROCESS - VIRTUAL REALITY

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

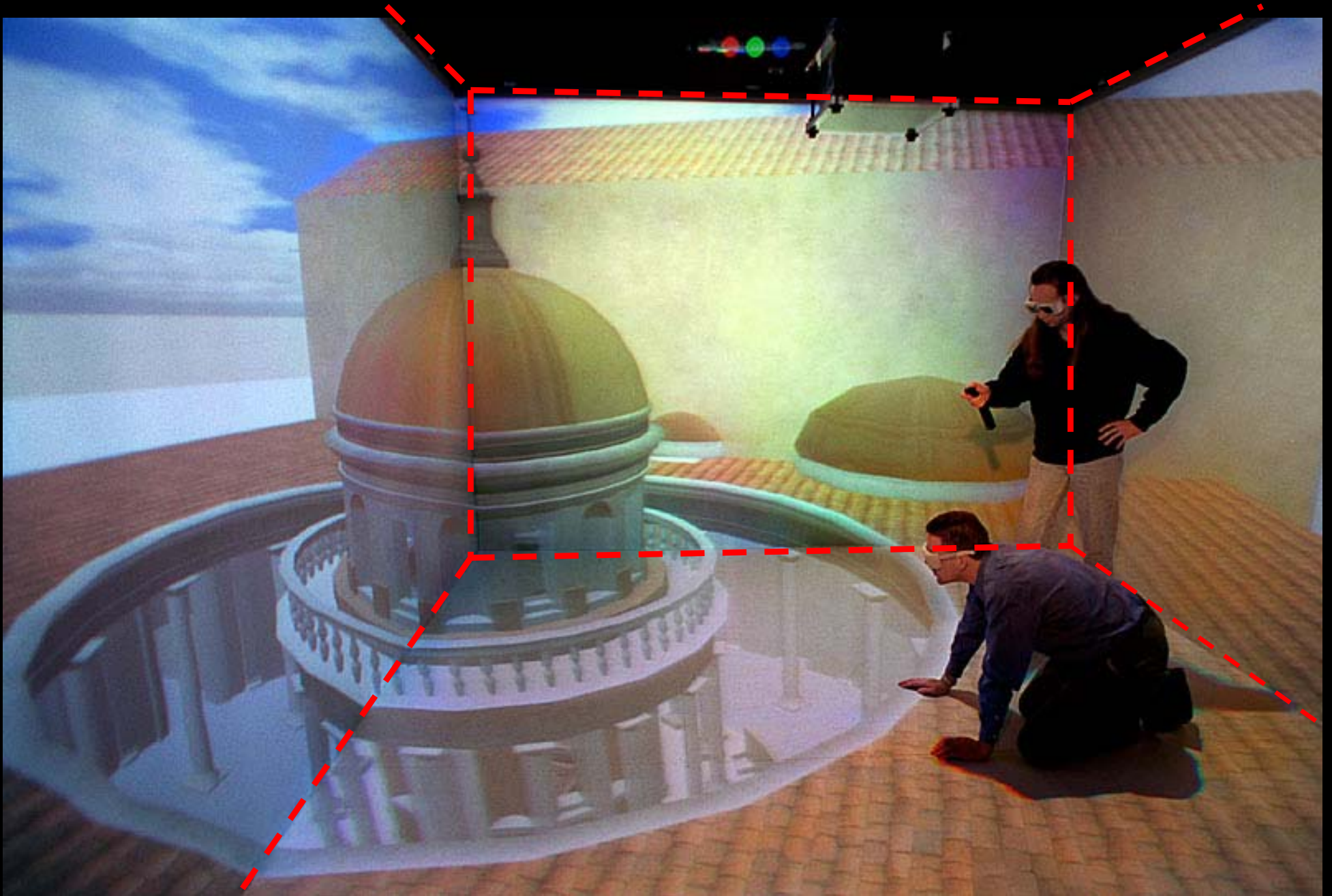
THE PRESENT



DIGITAL DESIGN PROCESS - VIRTUAL REALITY

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

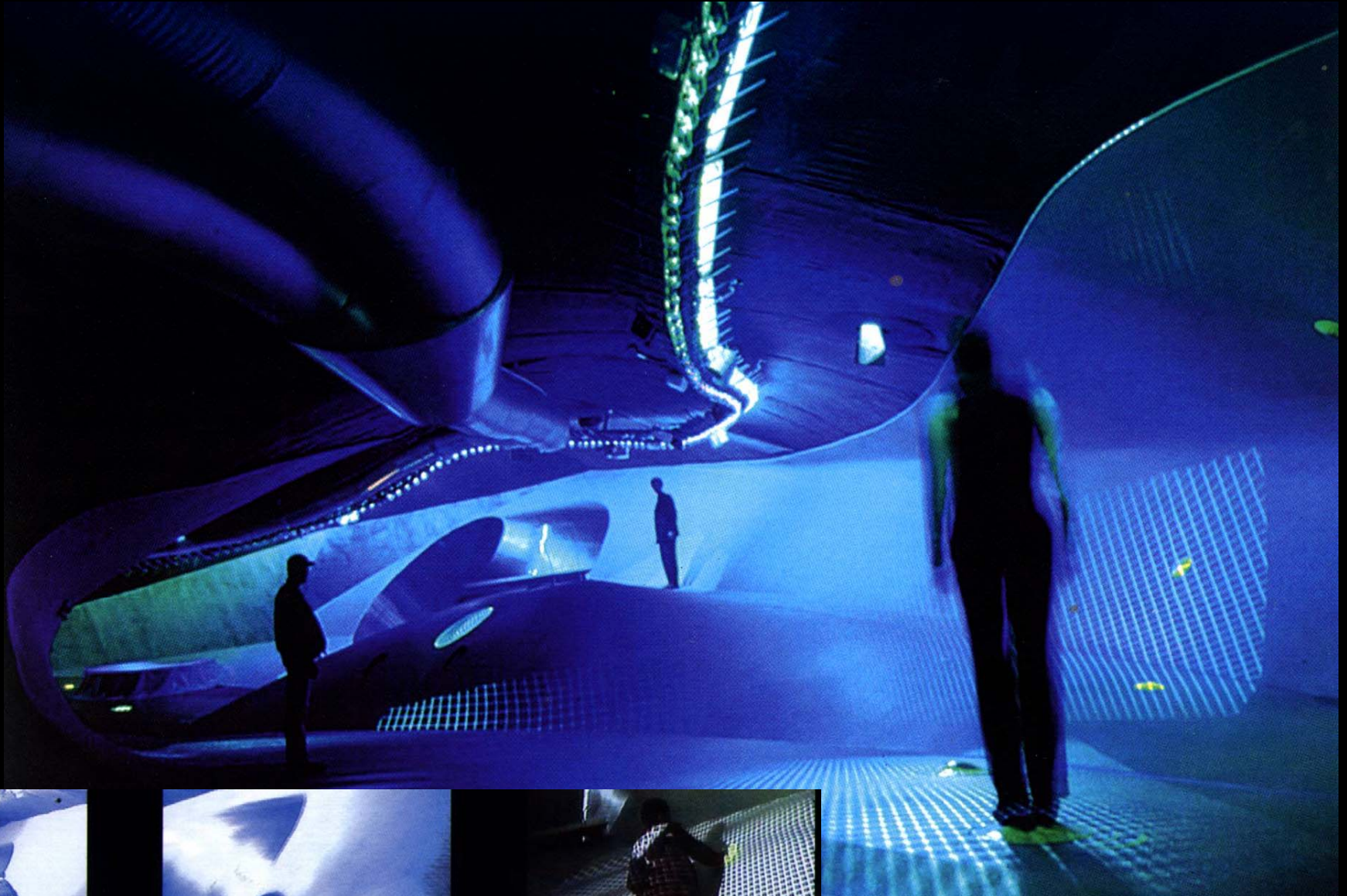
THE PRESENT



DIGITAL DESIGN PROCESS - VIRTUAL REALITY

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

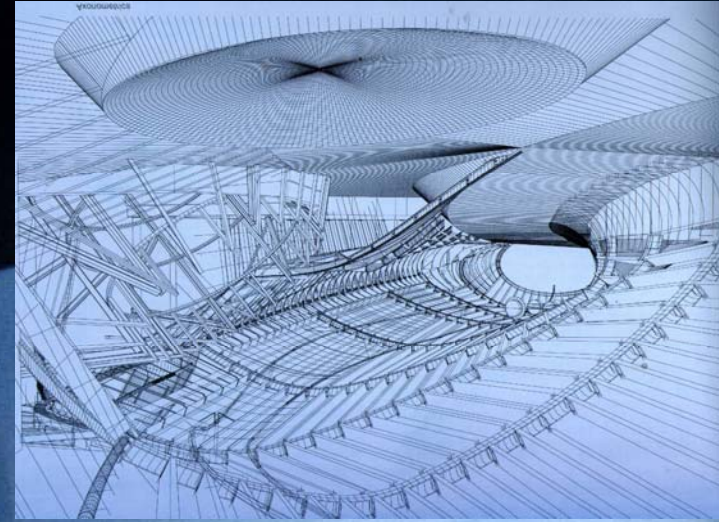
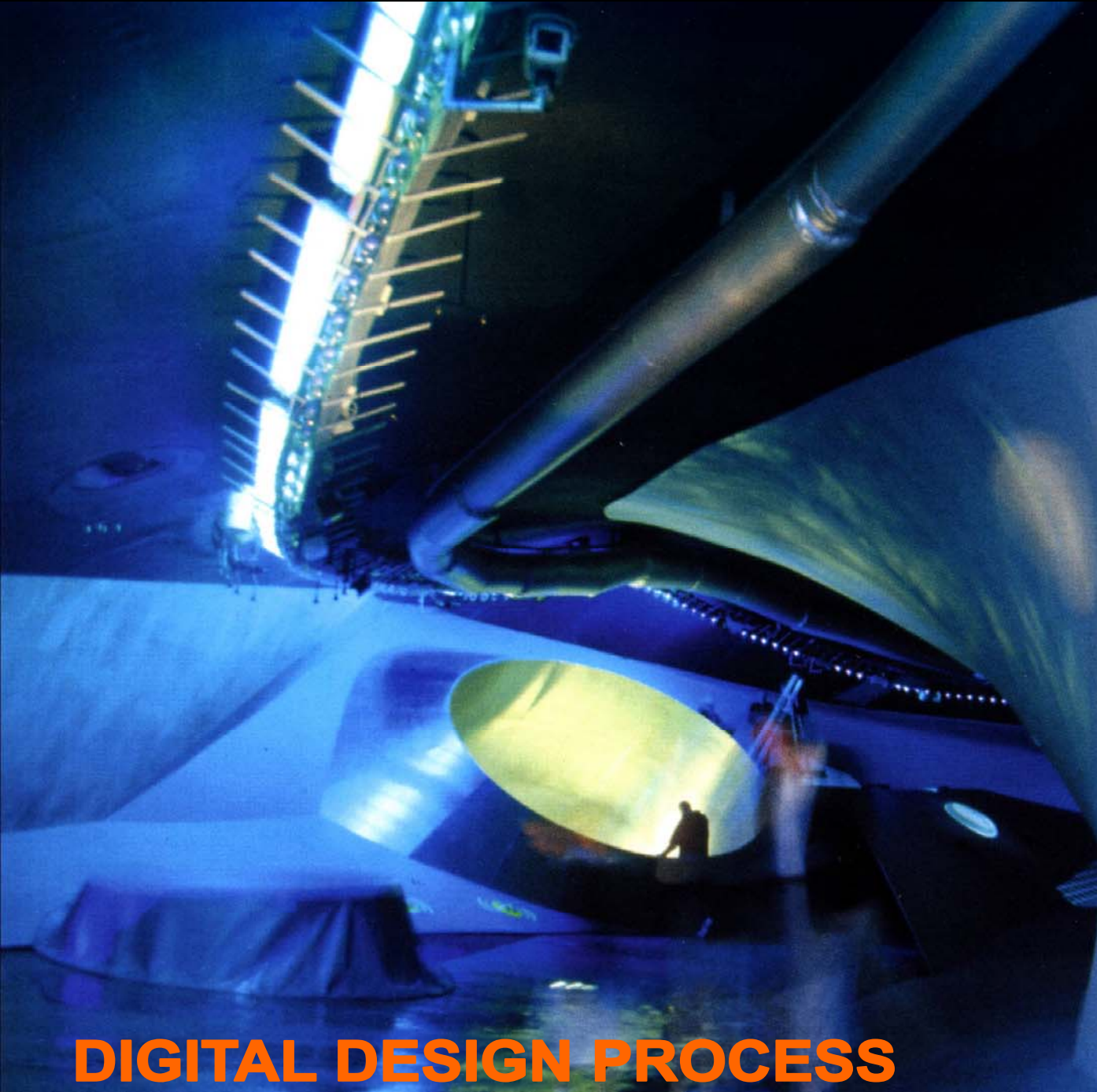
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DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

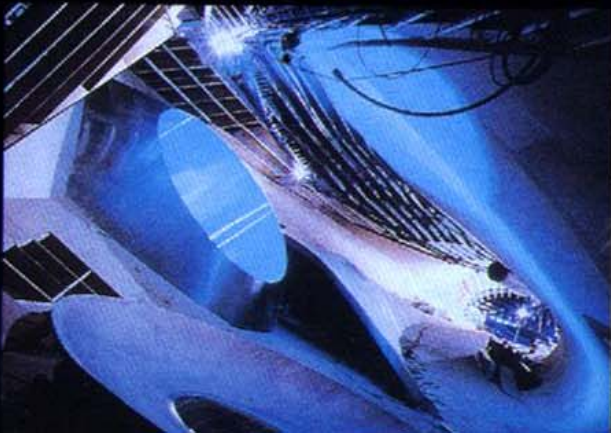
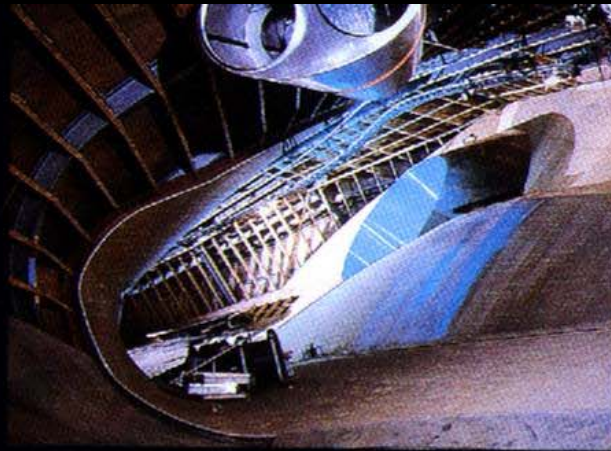
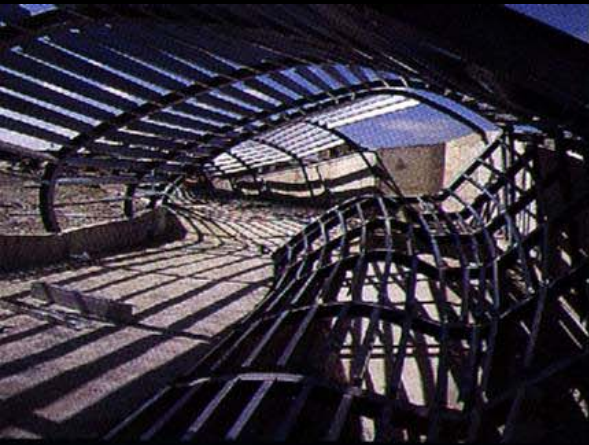
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DIGITAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

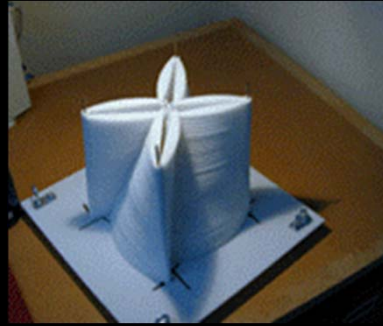
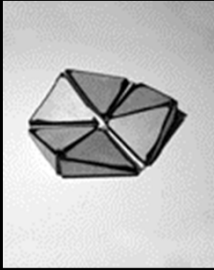
PRESENT



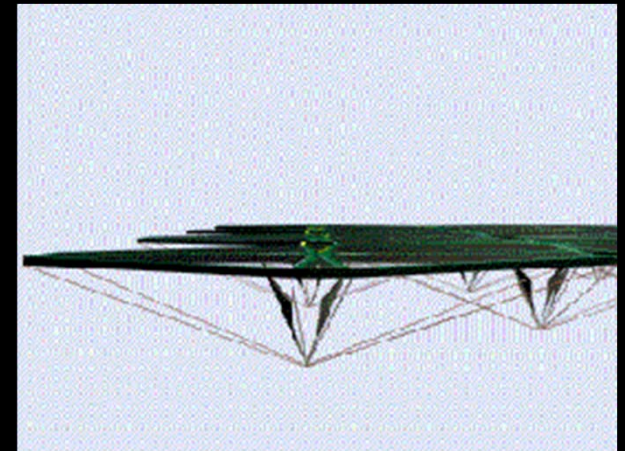
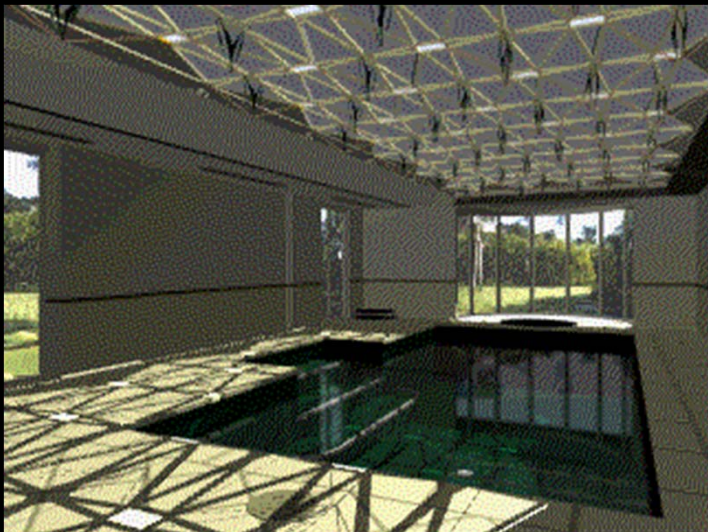
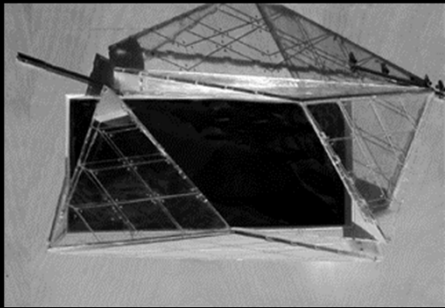
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ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE

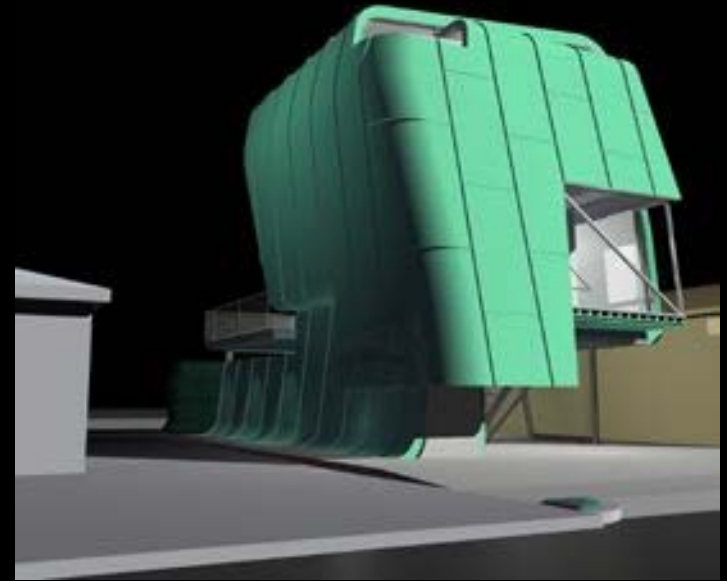


VISION OF THE FUTURE



DIGITAL WORLD

VISION OF THE FUTURE



DIGITAL WORLD

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS

ROBOTIZED ARCHITECTURE

FUTURE

Some day in the next millennium, architects may be able to put design information into a machine that will automatically construct a complete building .

by B.J. Novitski

VISION OF THE FUTURE:

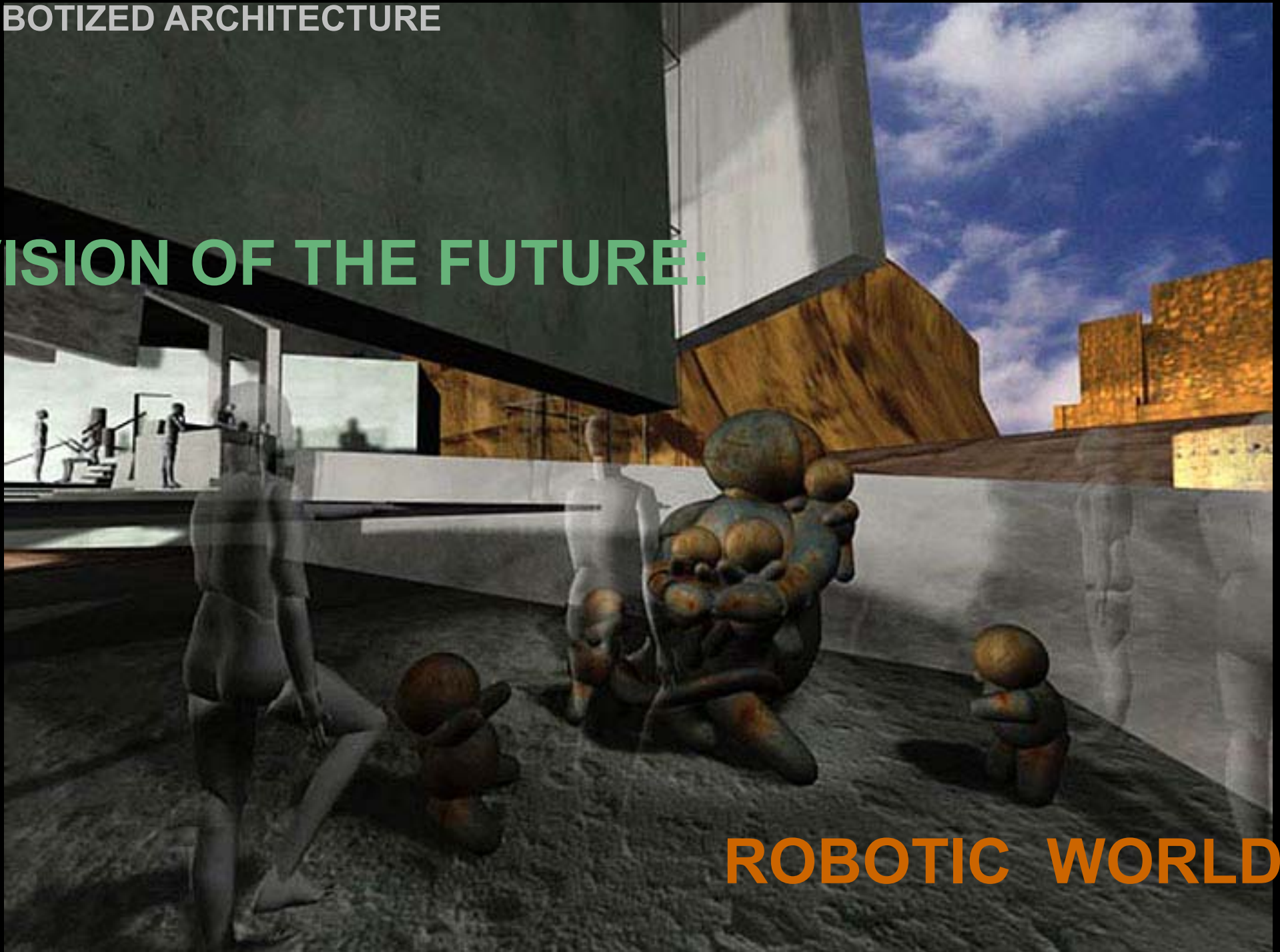


ROBOTIC WORLD



DIGITAL WORLD

VISION OF THE FUTURE:



ROBOTIC WORLD

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

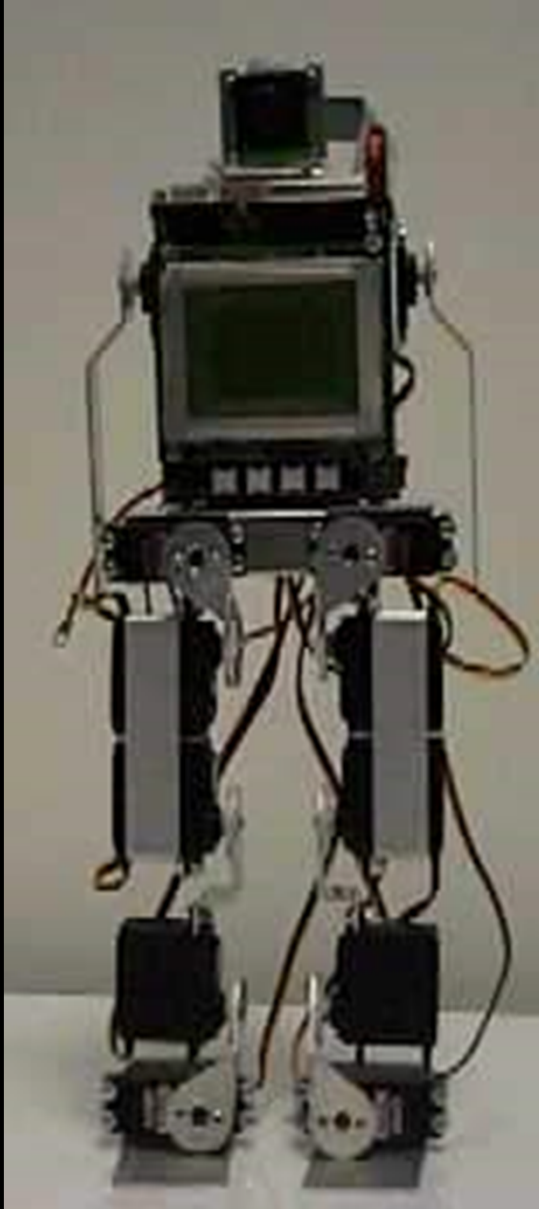
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ROBOTIZED ARCHITECTURE
THE VISION OF THE FUTURE

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FUTURE

TOOLS OF THE FUTURE



AR: AGENT-ROBOT



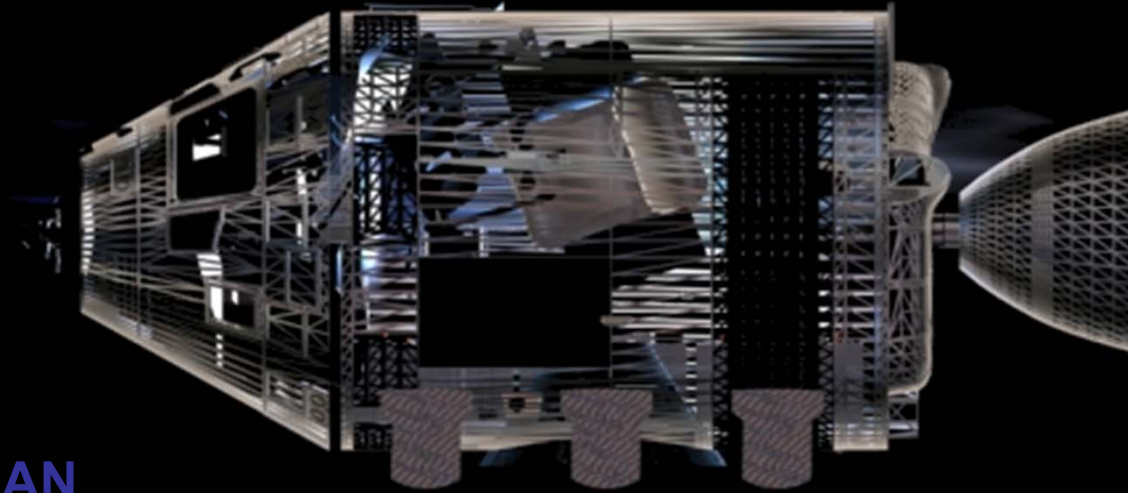
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ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE **AS A VISION FOR THE FUTURE**

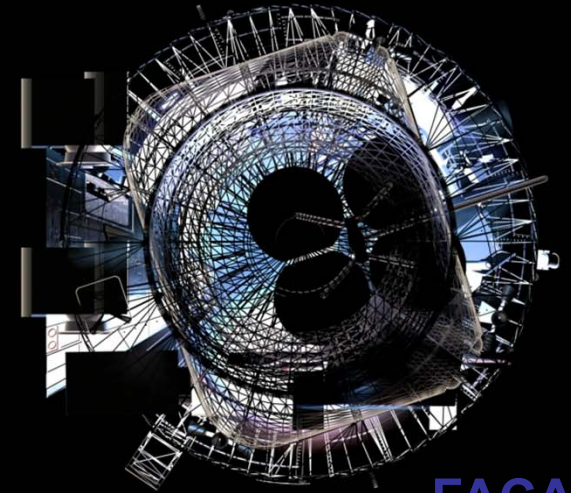
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TOOLS OF THE FUTURE

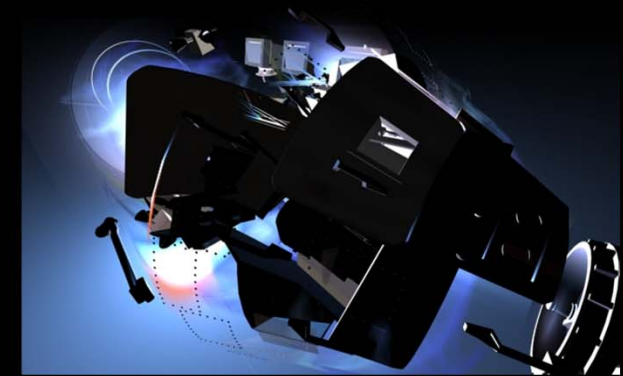
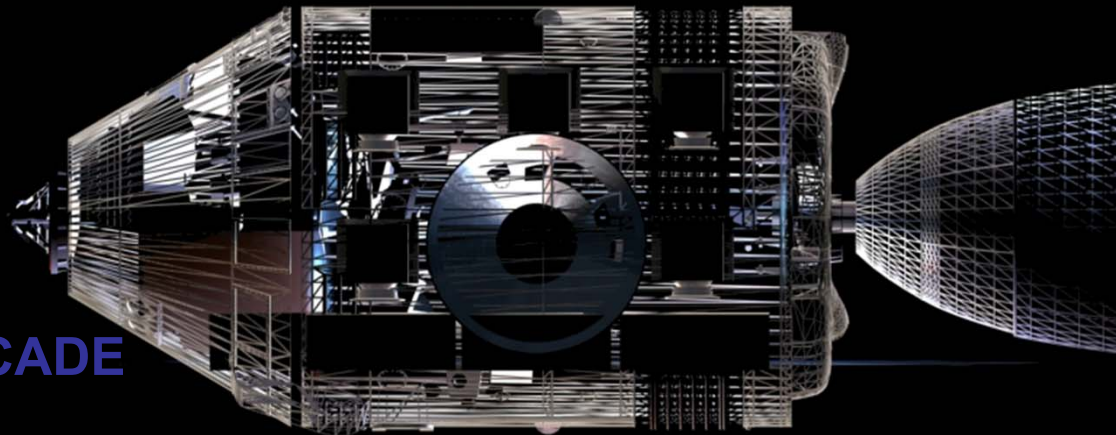
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FACADE



FACADE

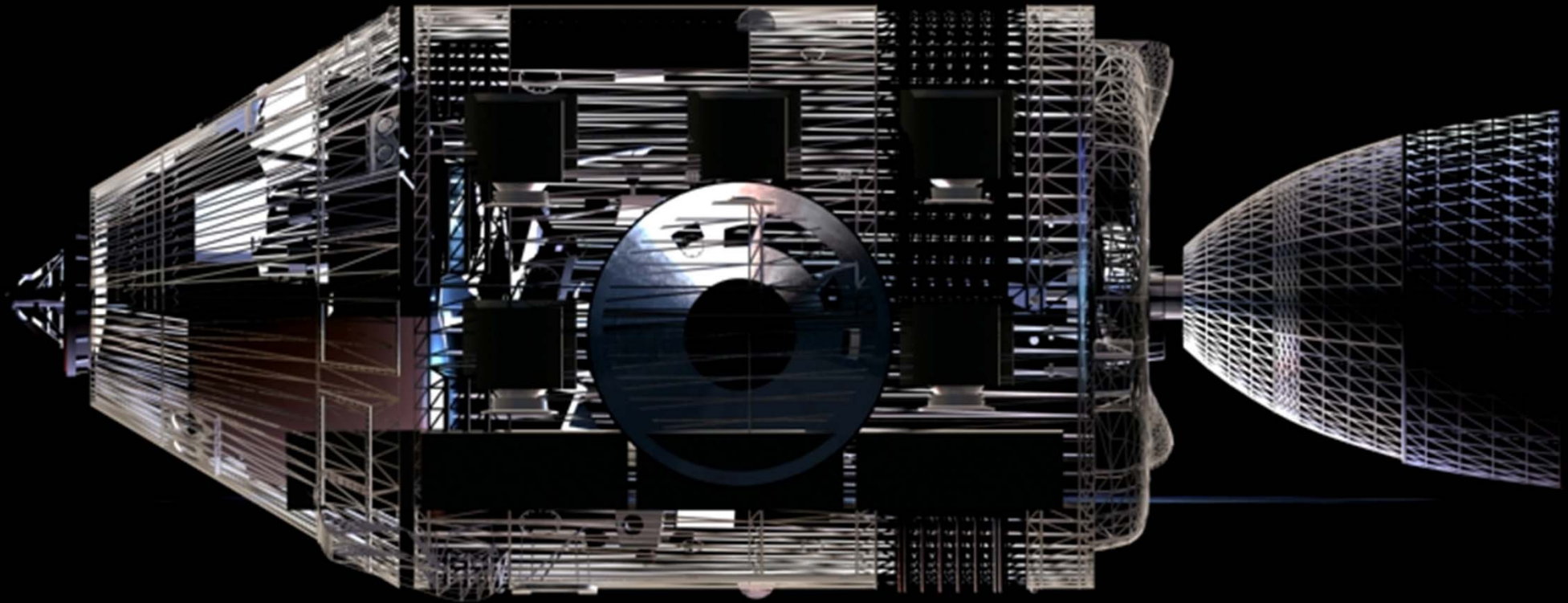


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ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE **AS A VISION FOR THE FUTURE**

FUTURE

TOOLS OF THE FUTURE



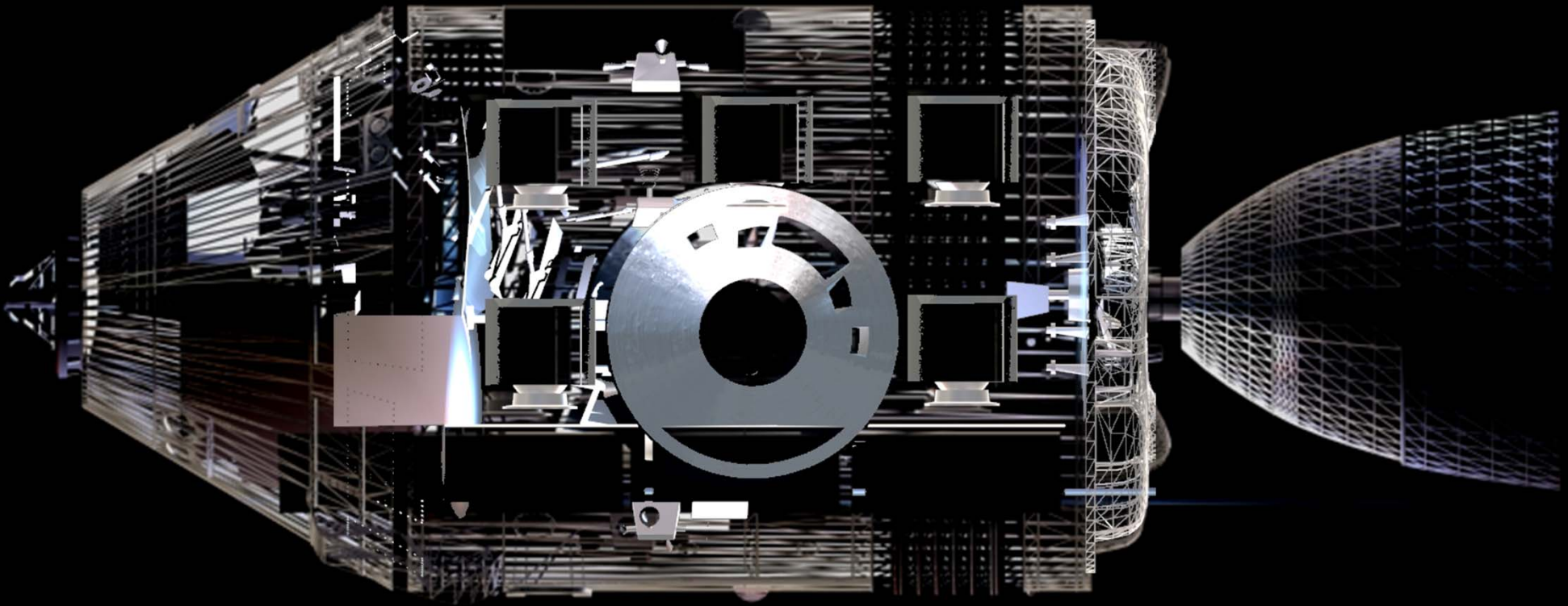
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TOOLS OF THE FUTURE



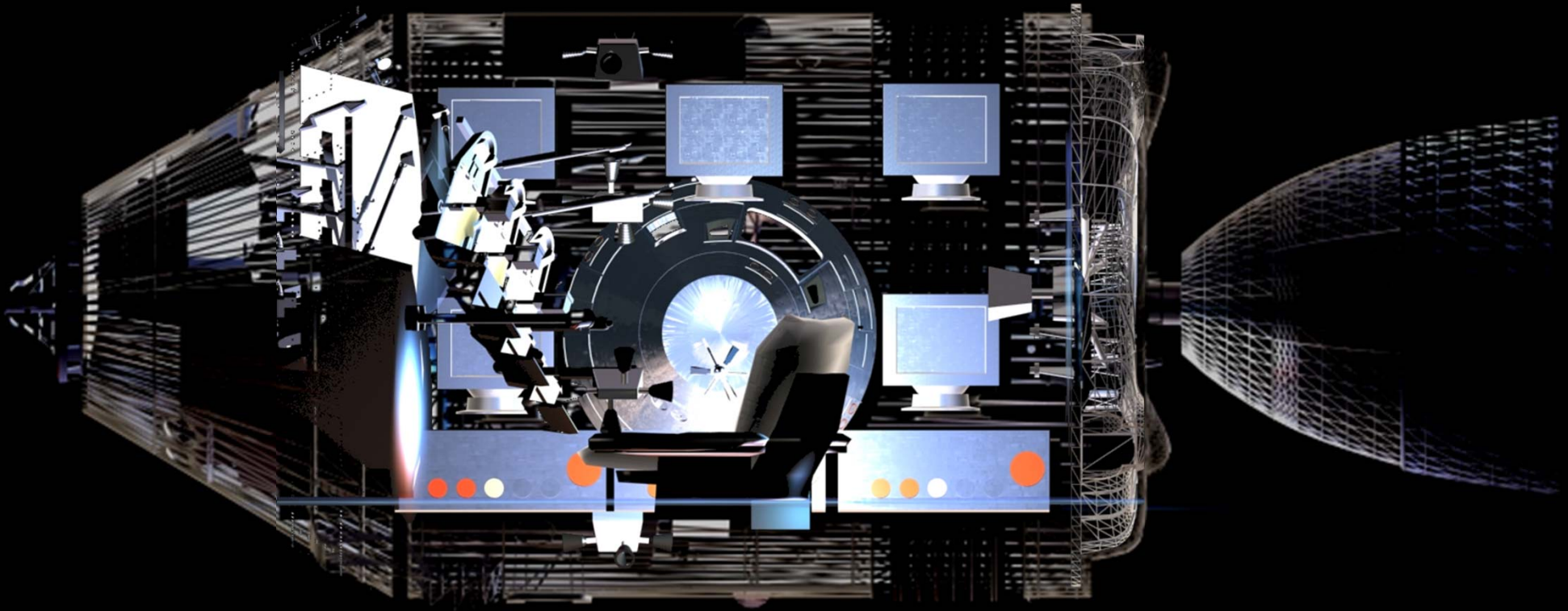
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ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE **AS A VISION FOR THE FUTURE**

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TOOLS OF THE FUTURE



SECTION

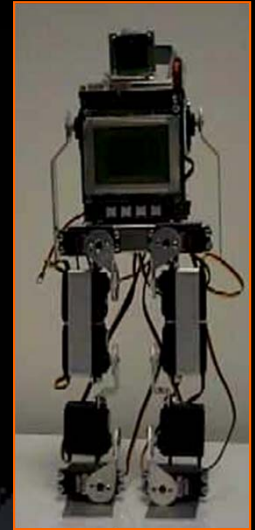
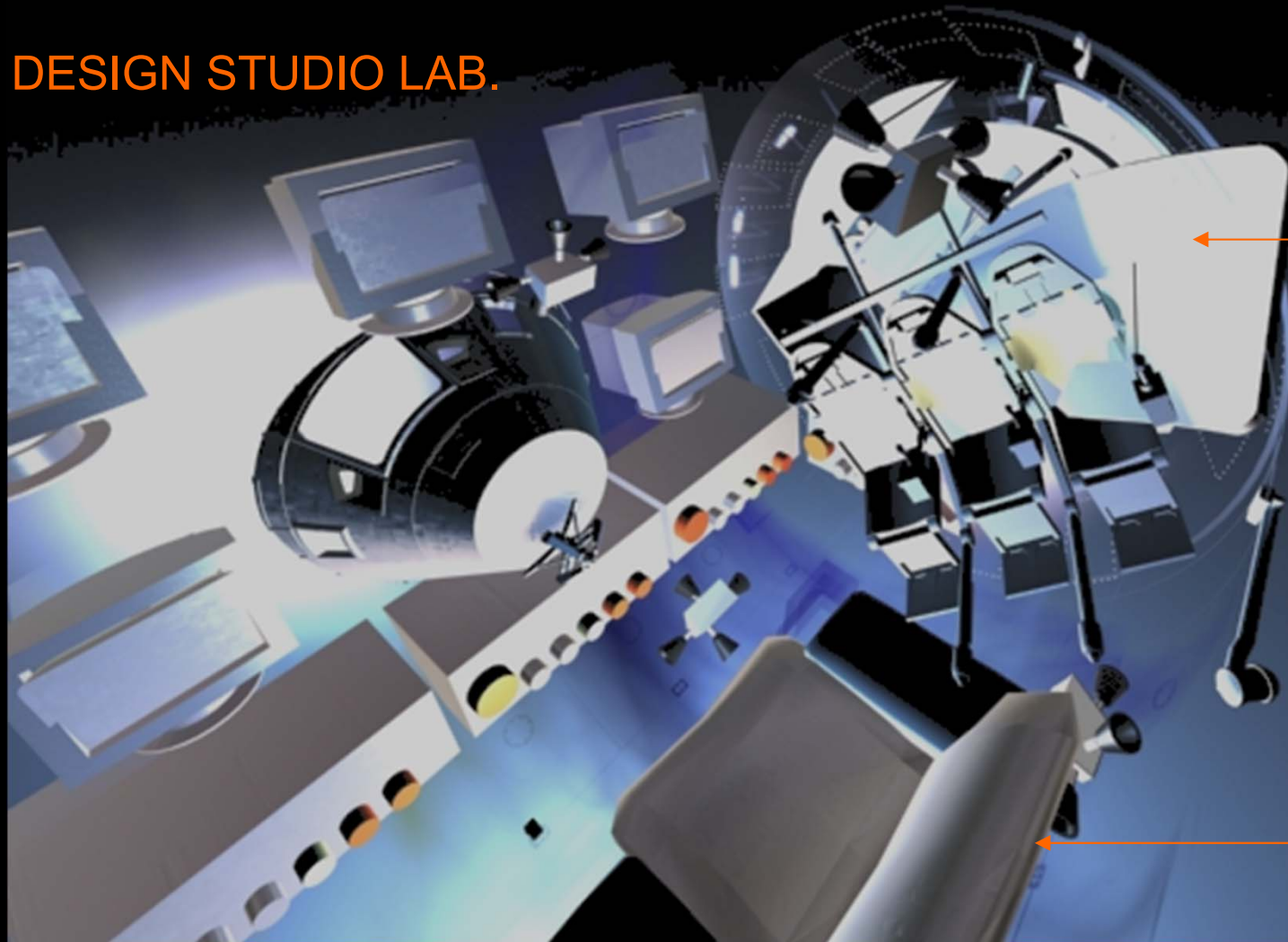
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ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

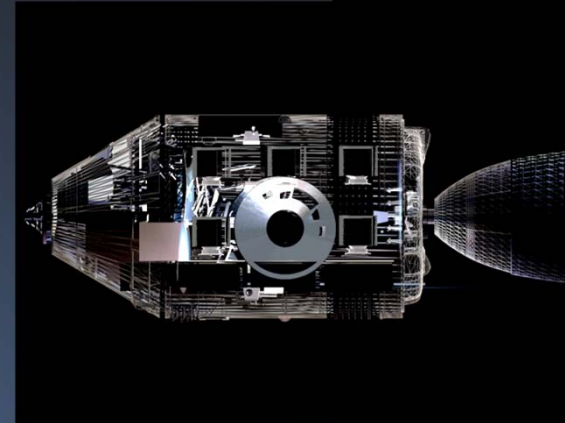
FUTURE

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DESIGN STUDIO LAB.



AGENT ROBOT



ARCHITECT SEAT

DESIGN STUDIO – AGENT ROBOT

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
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1

ZONING DIAGRAMS

2

CREATING MEANINGS OF SPACES
TESTING THE QUALITY OF SPACES

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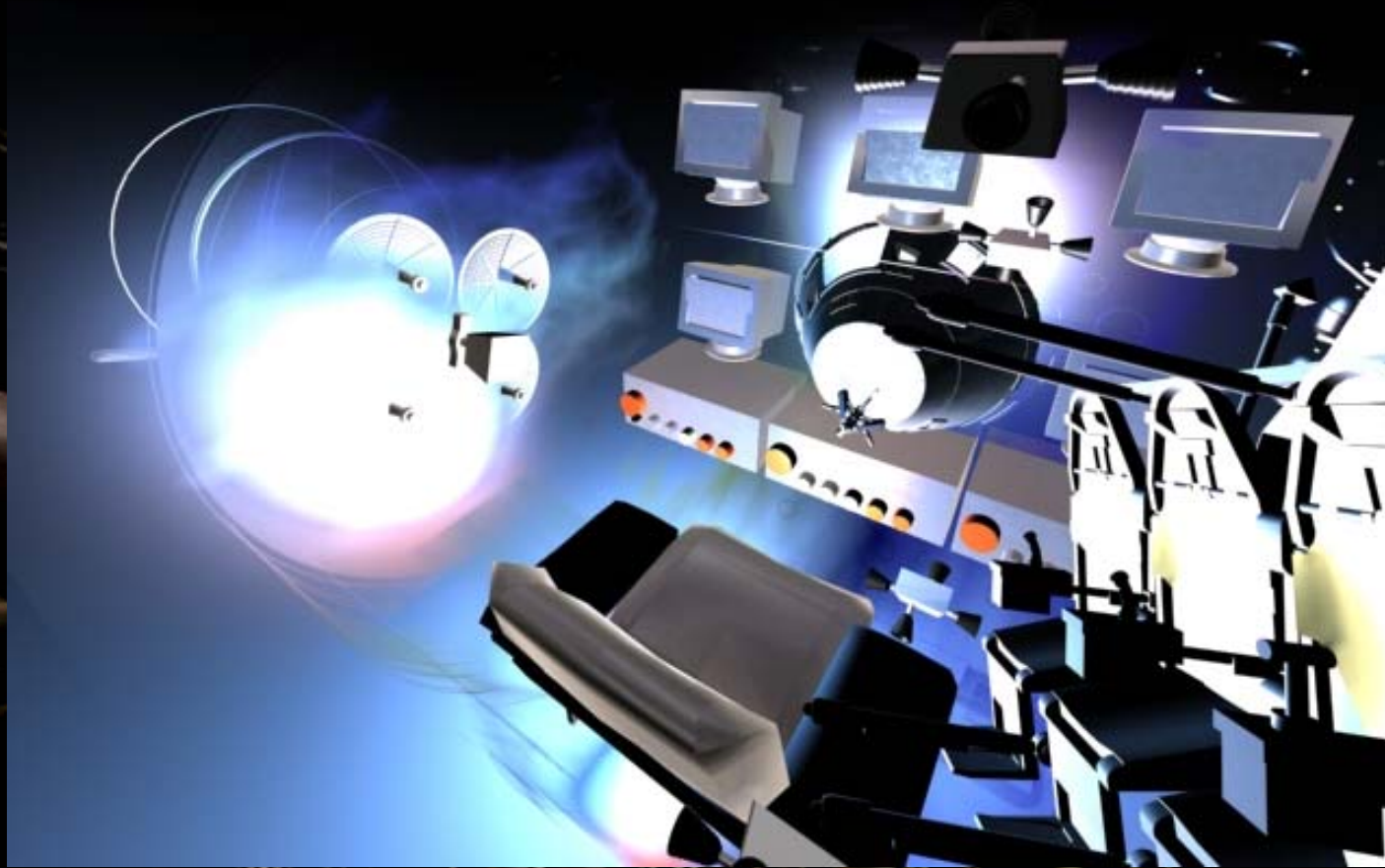
FINAL PRODUCT

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ROBOTIZED ARCHITECTURE DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

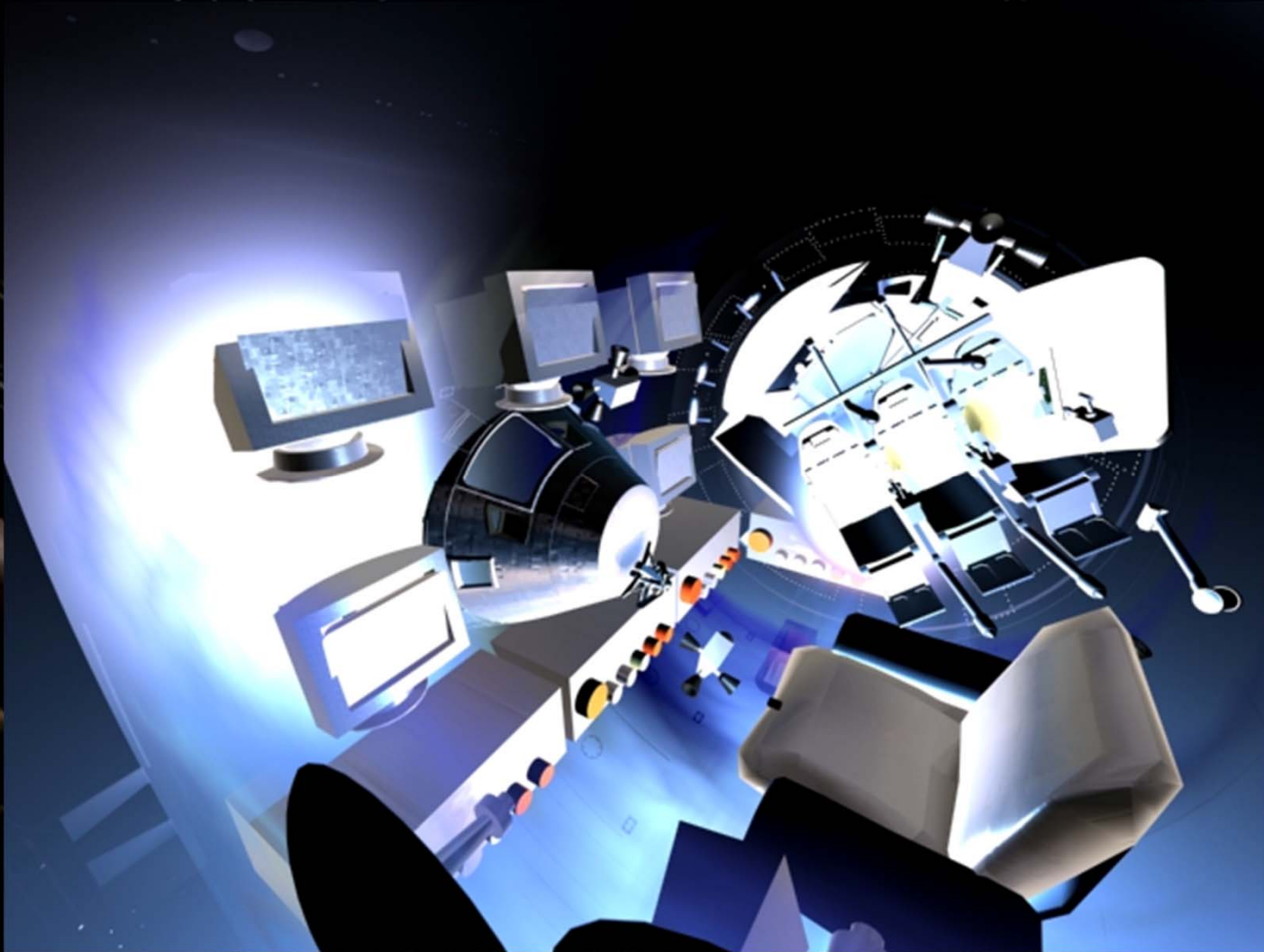
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DESIGN STUDIO - VIRTUAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

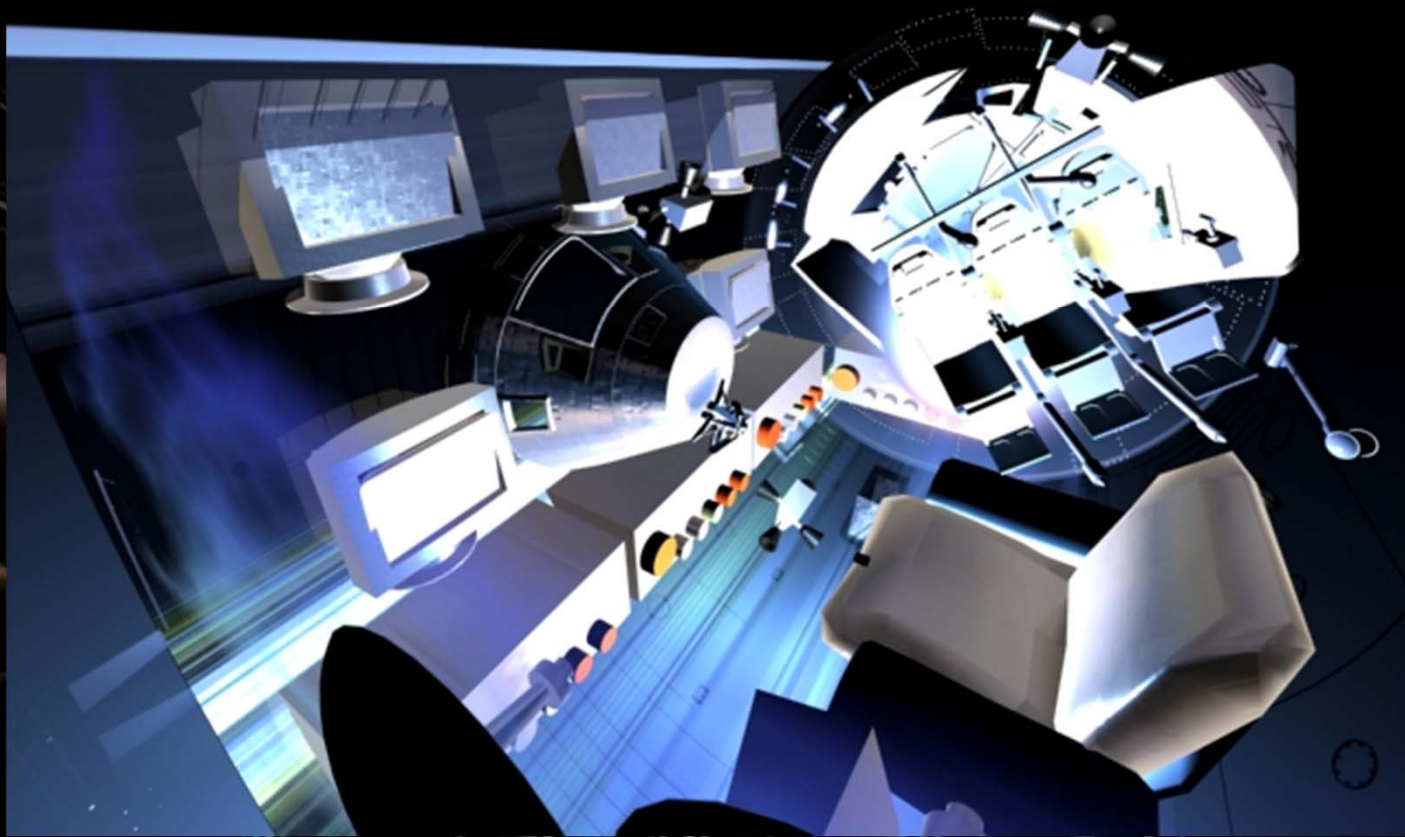
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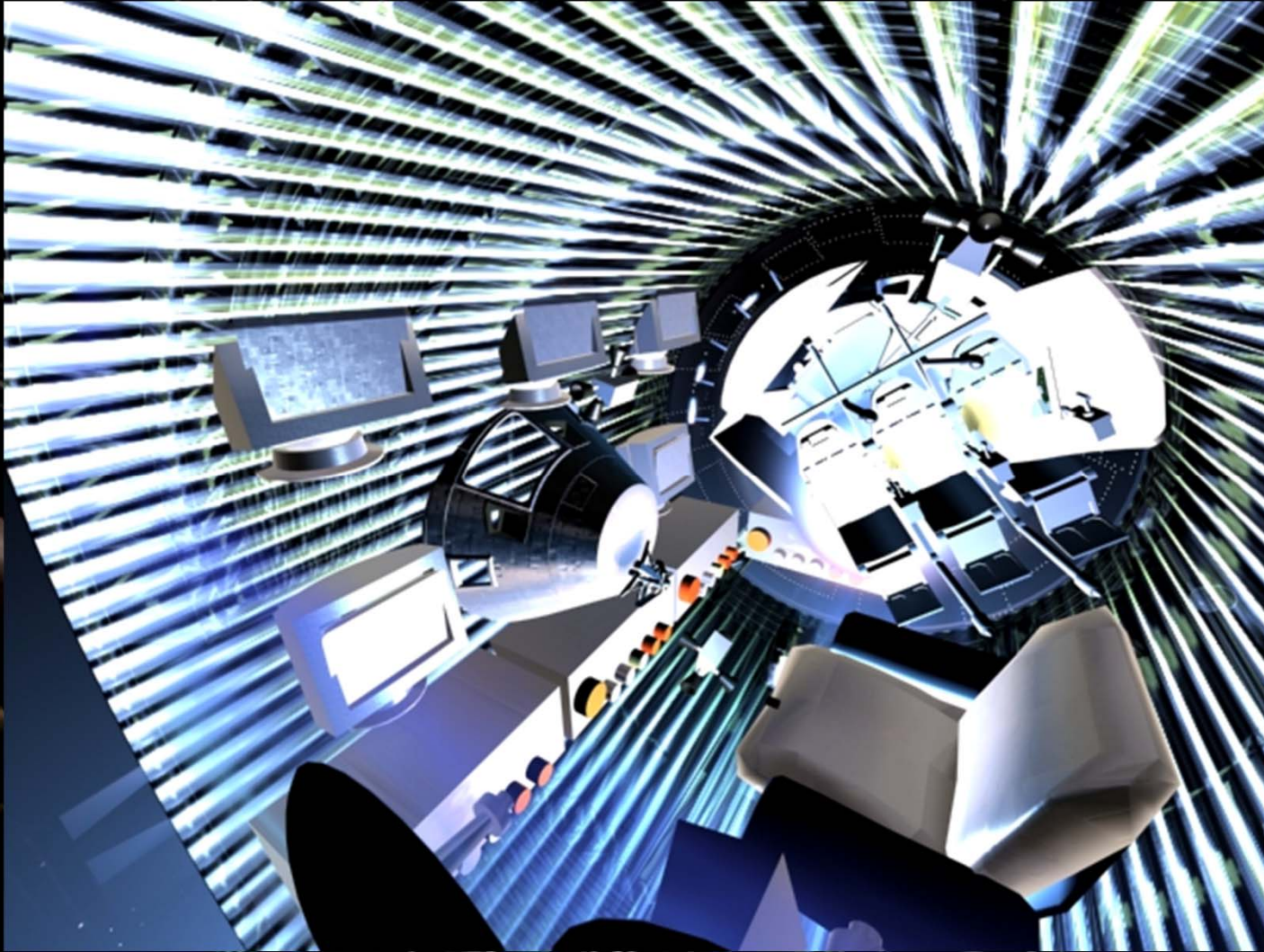
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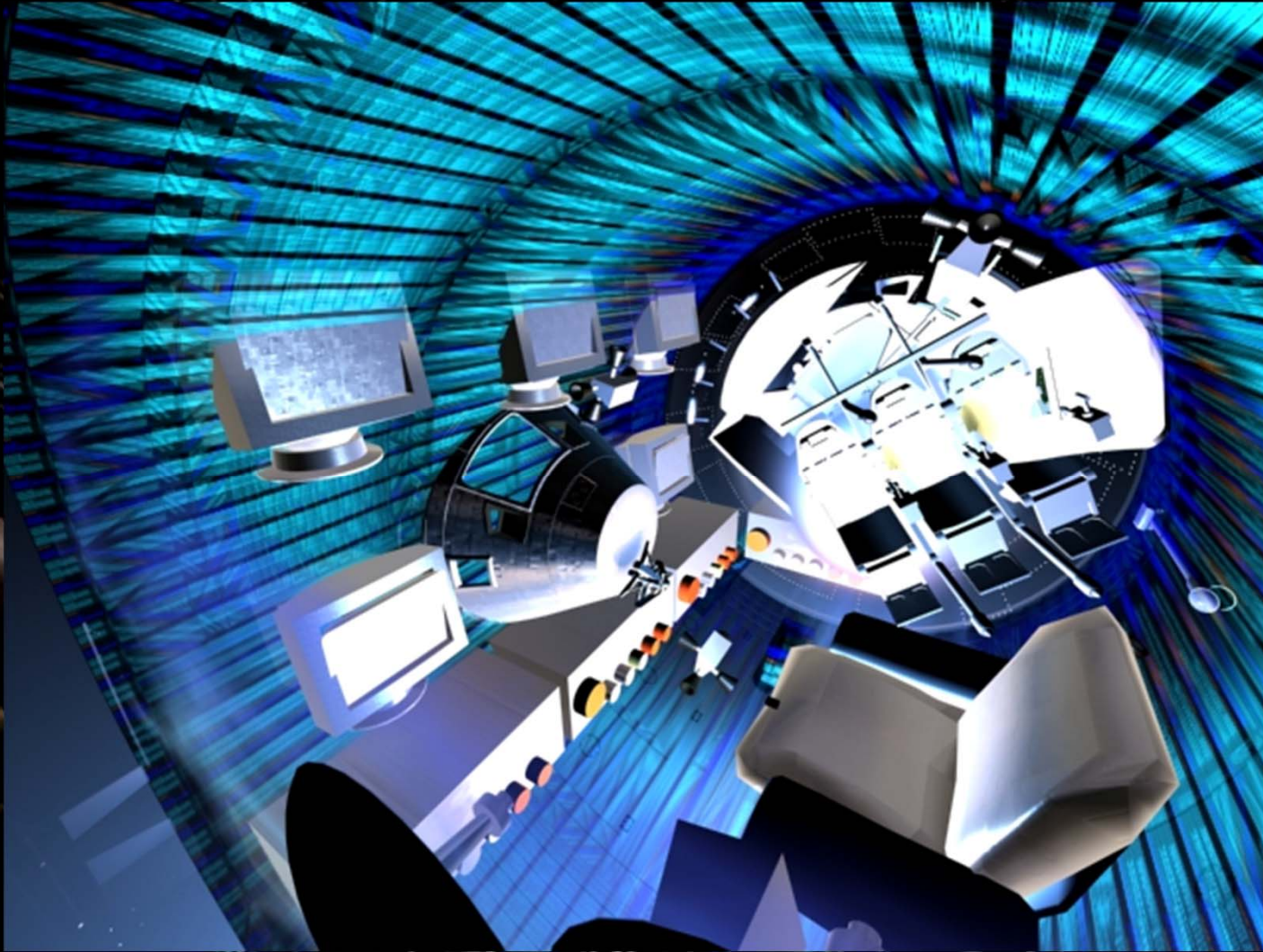
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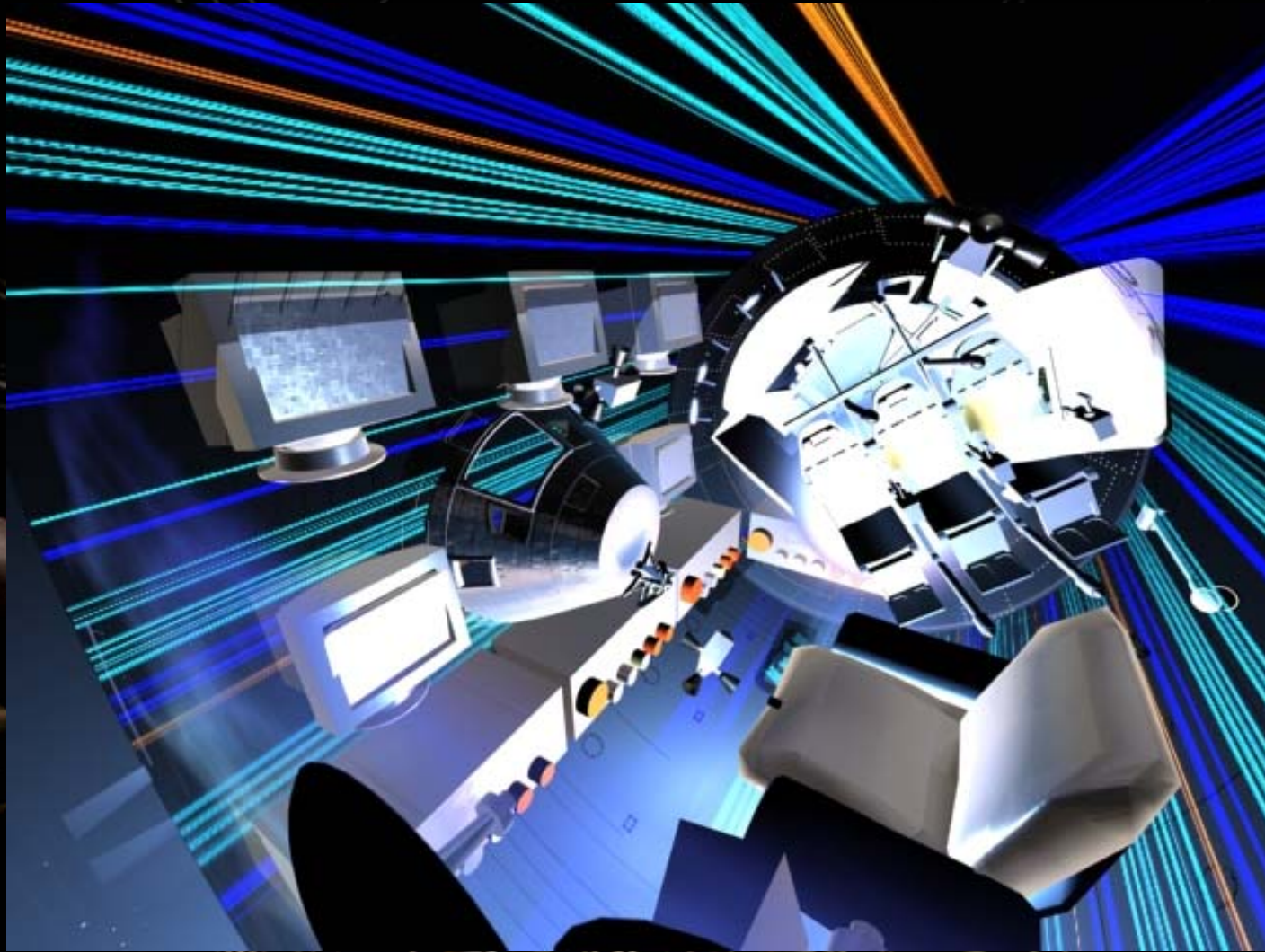
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ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

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ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

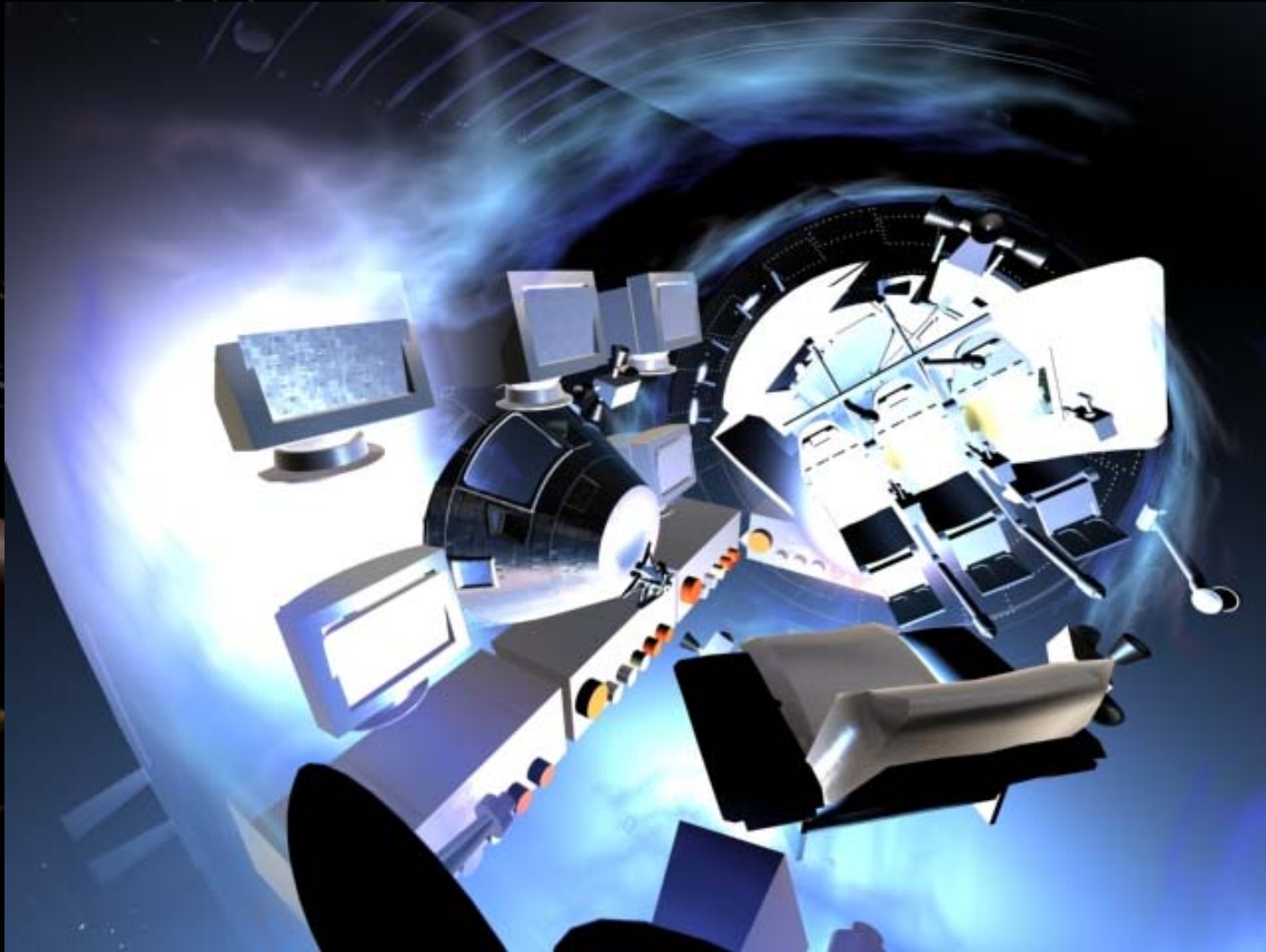
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DESIGN STUDIO - VIRTUAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE



DESIGN STUDIO - VIRTUAL DESIGN PROCESS

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE



DESIGN STUDIO - VIRTUAL DESIGN PROCESS

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ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

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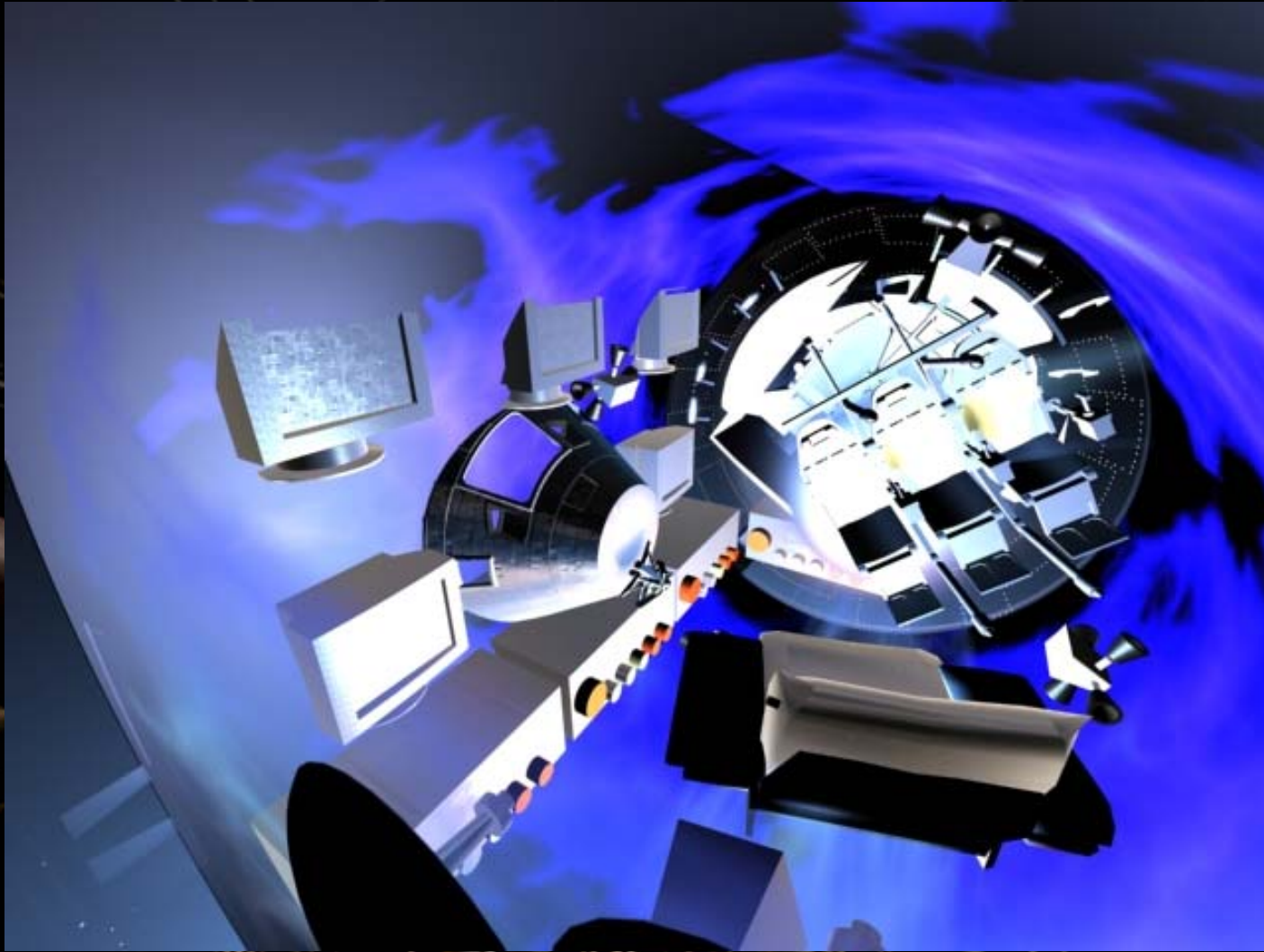
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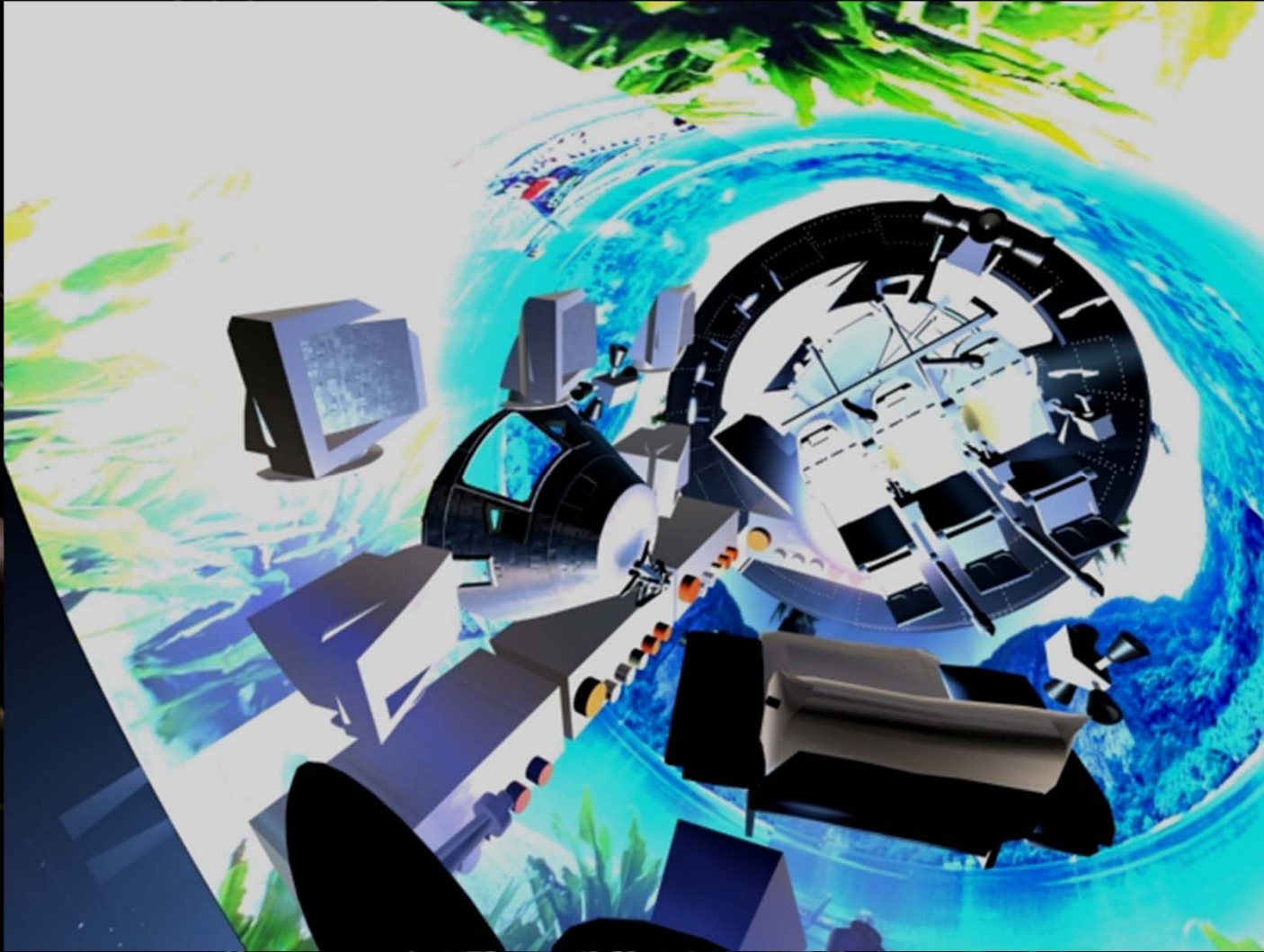
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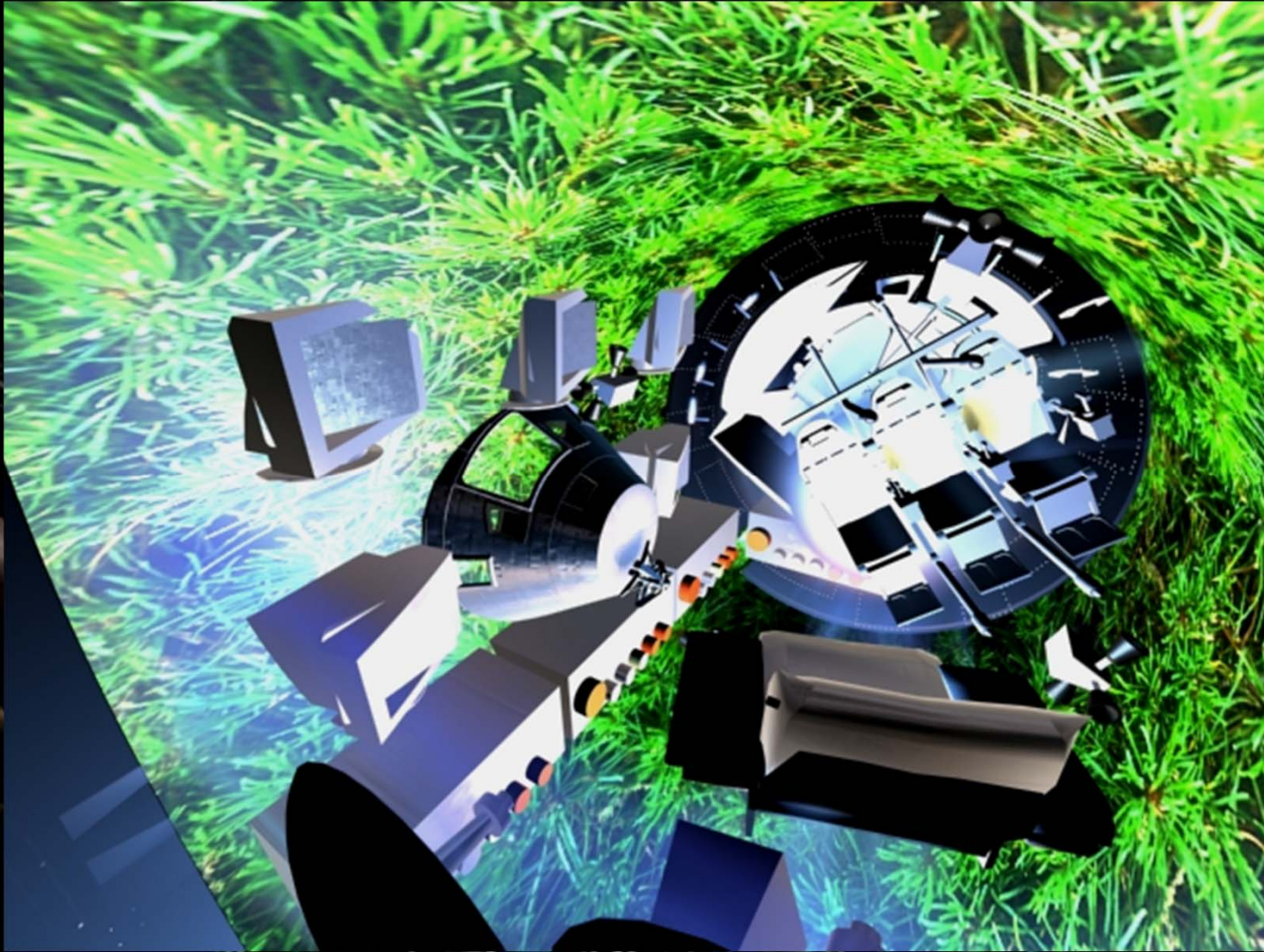
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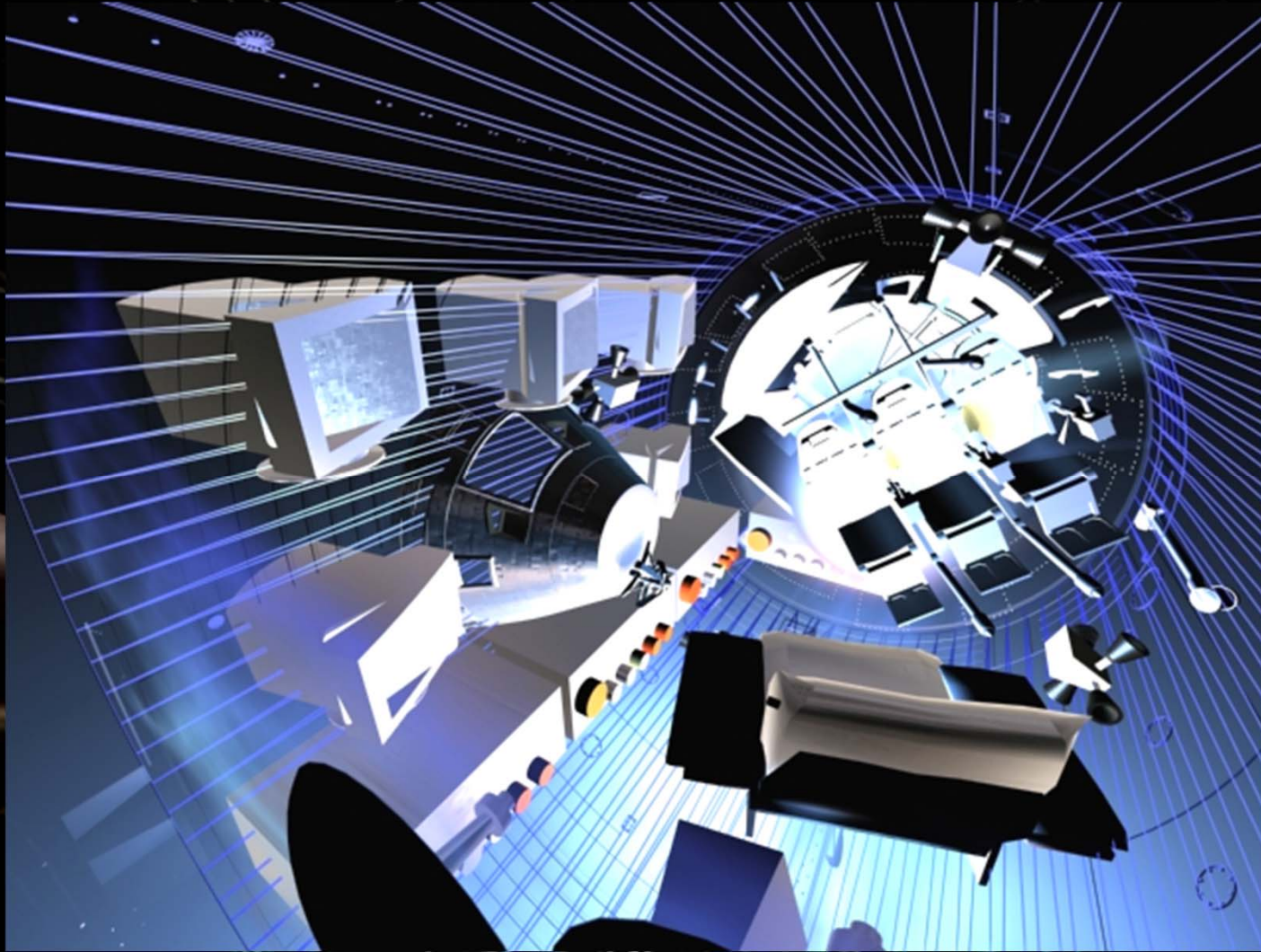
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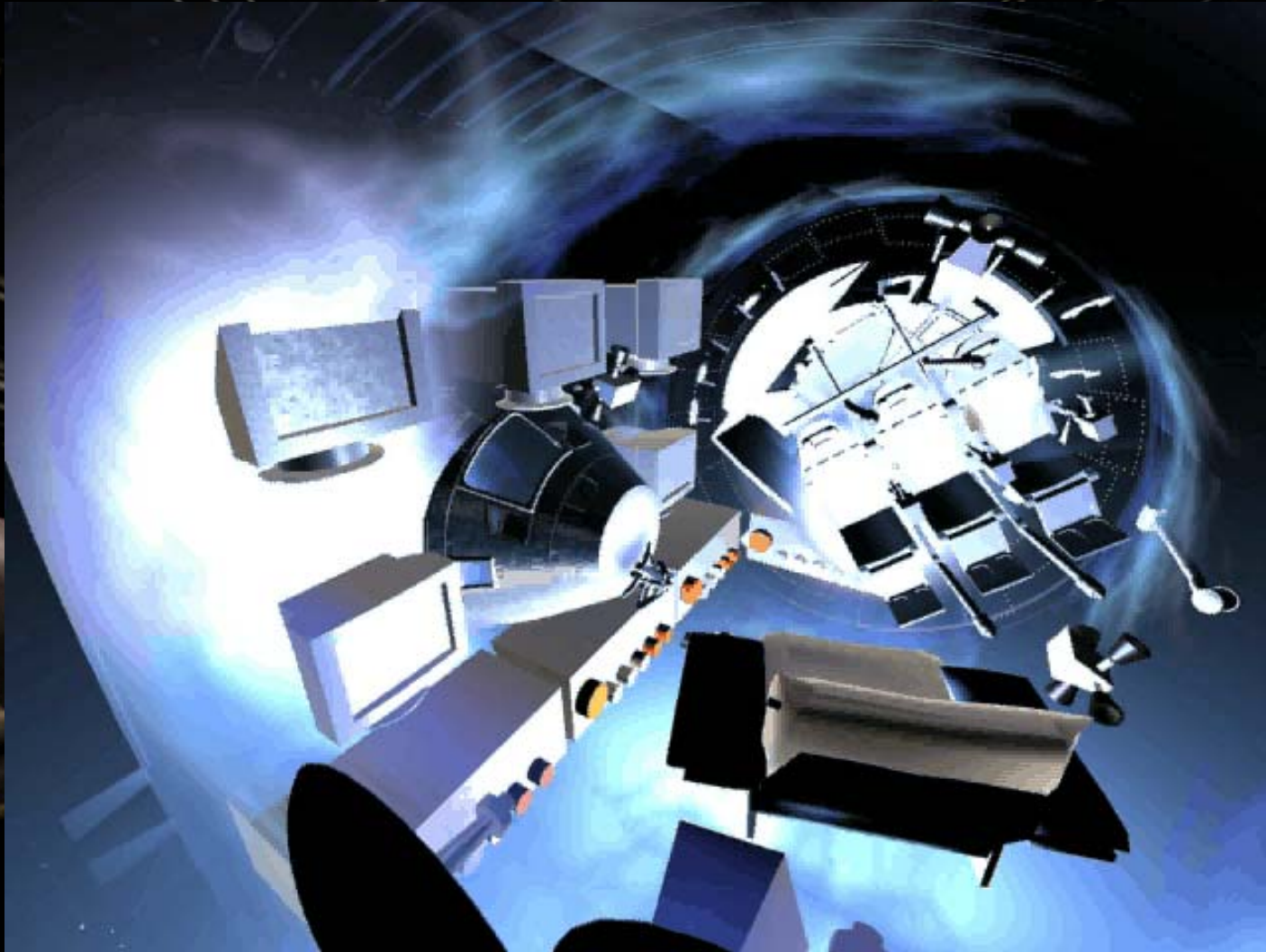
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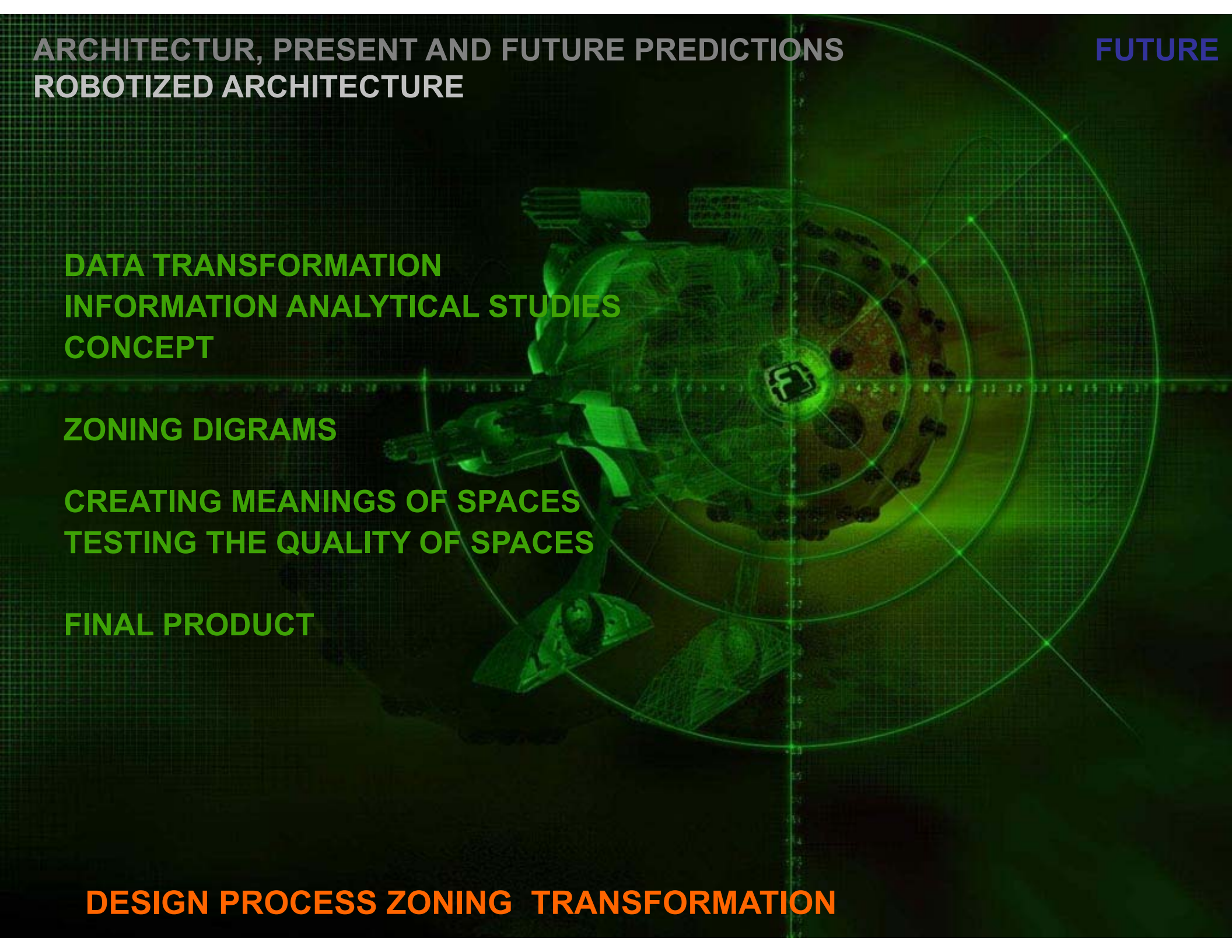
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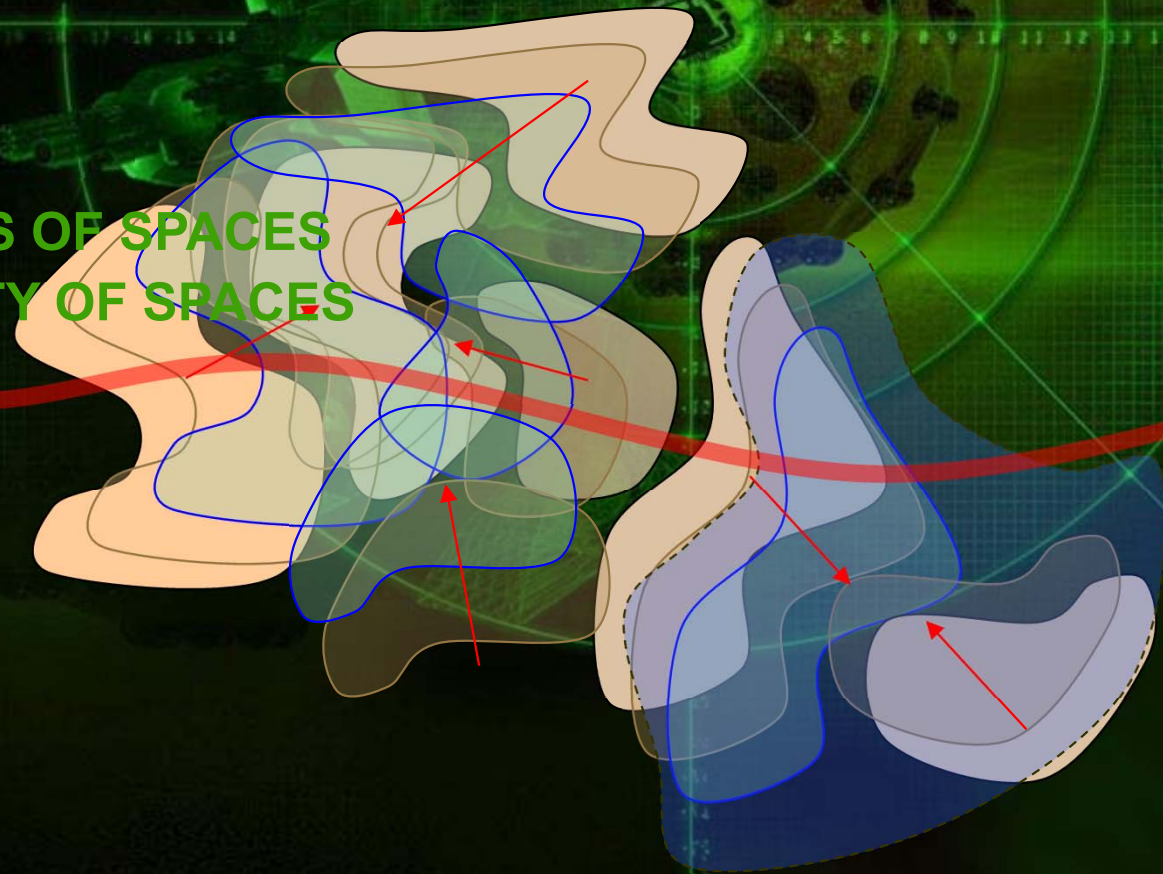
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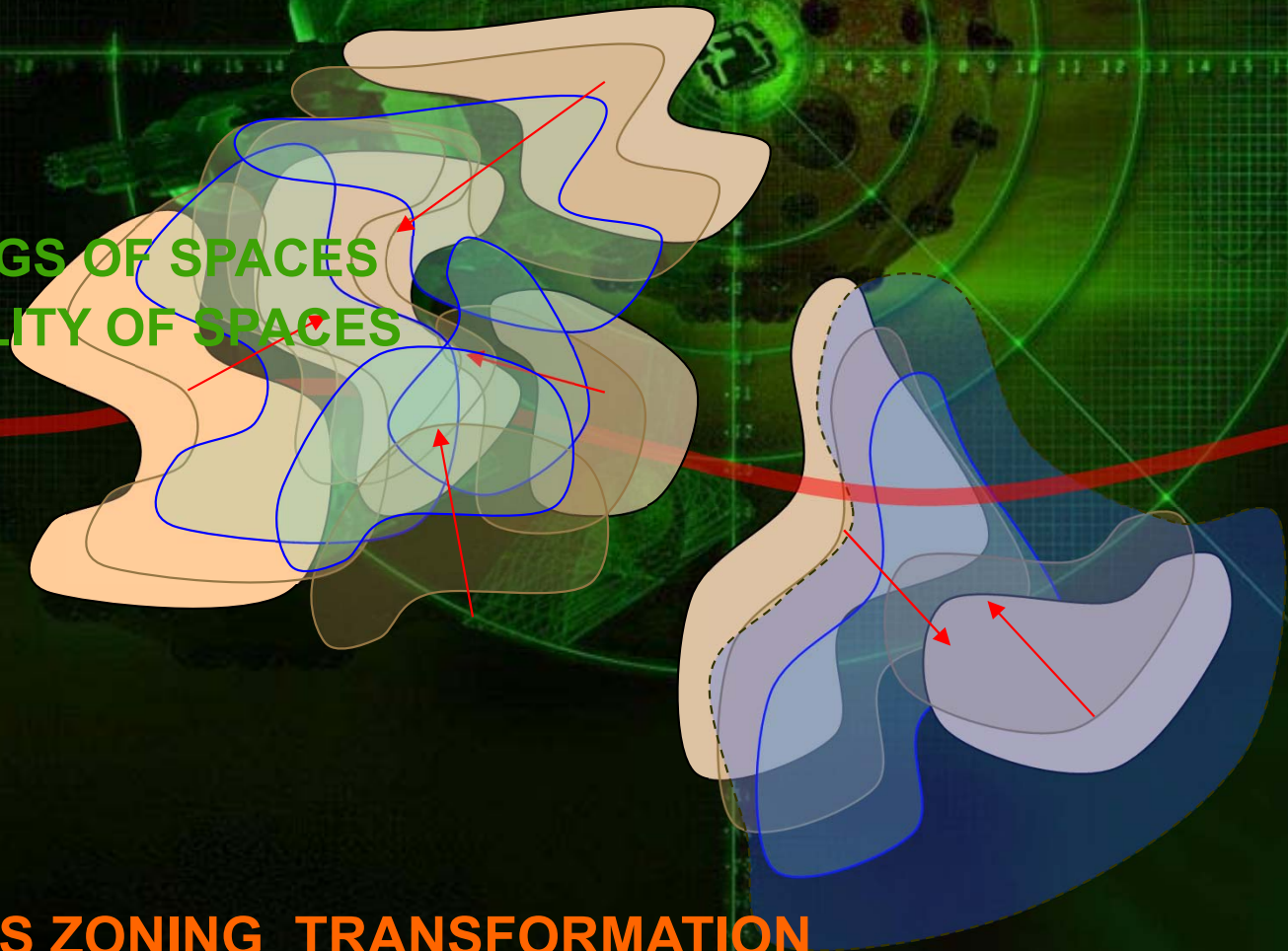
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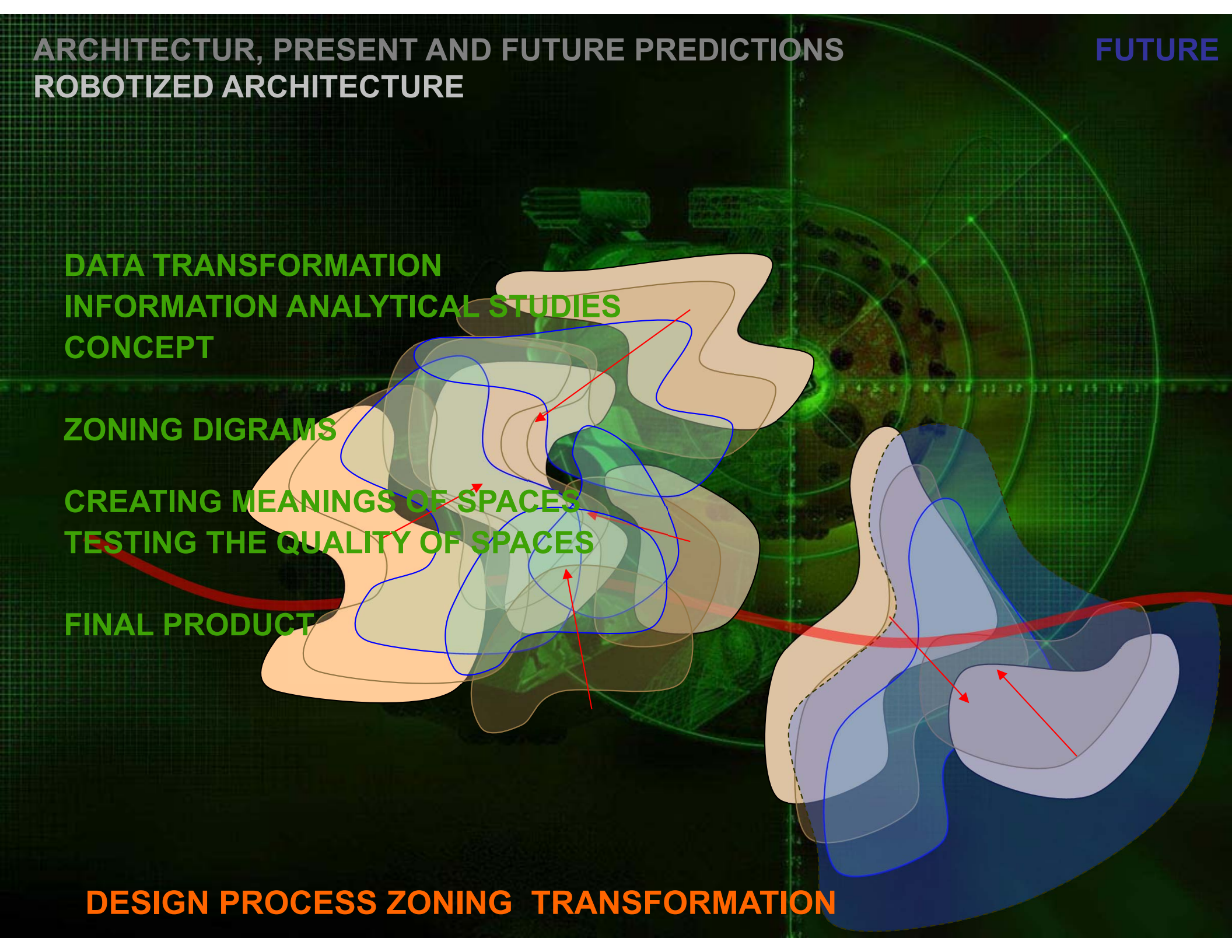
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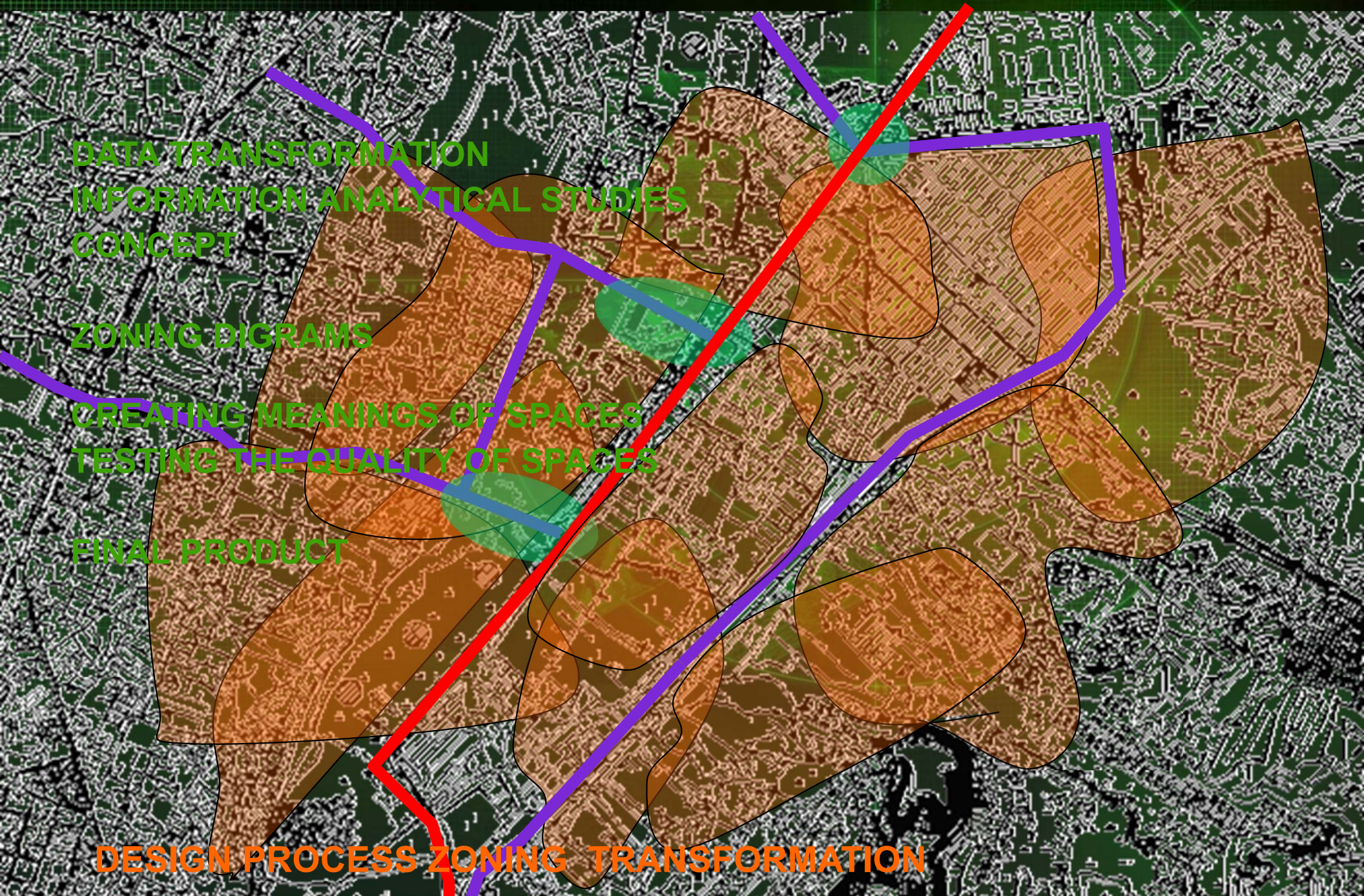
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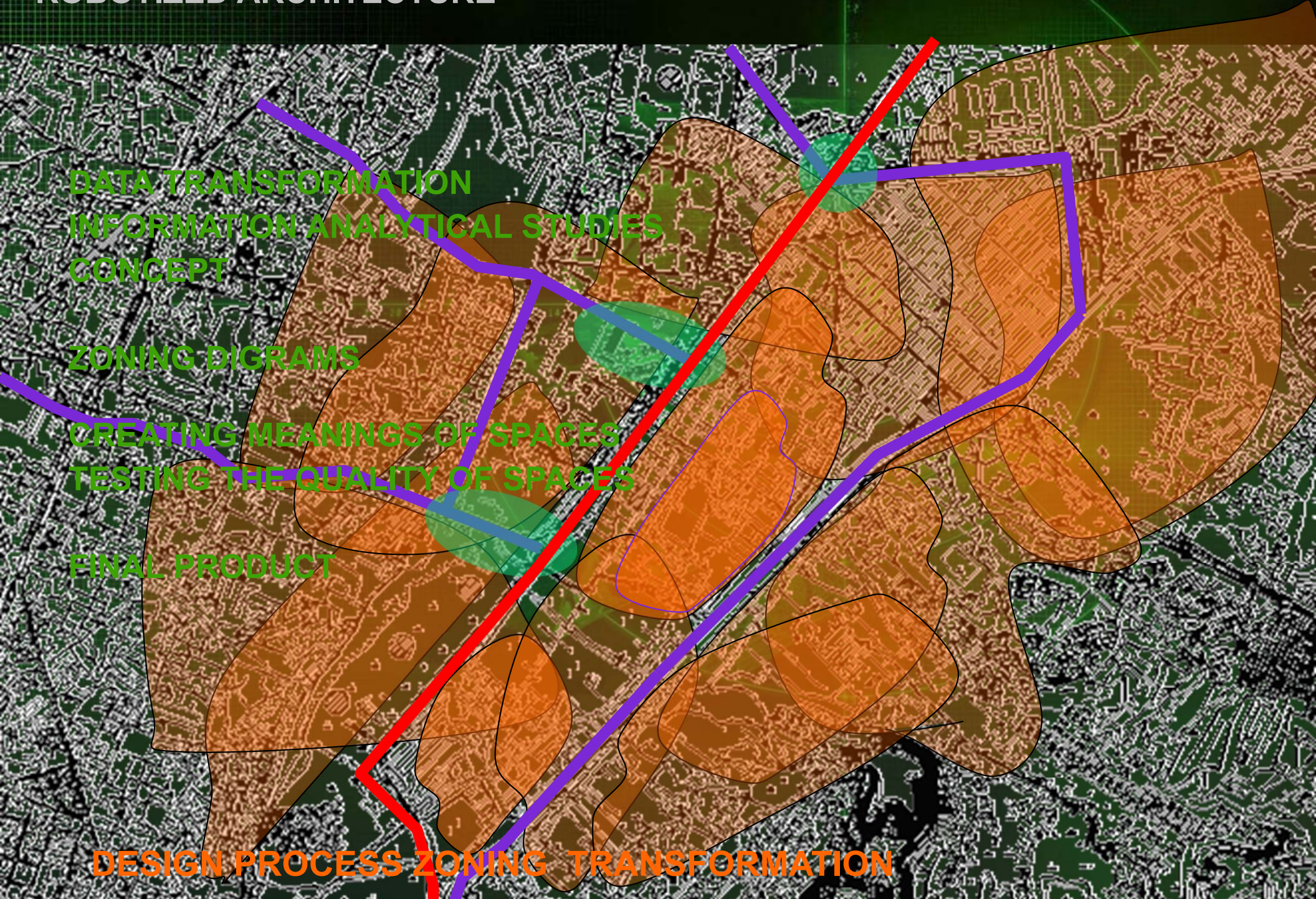
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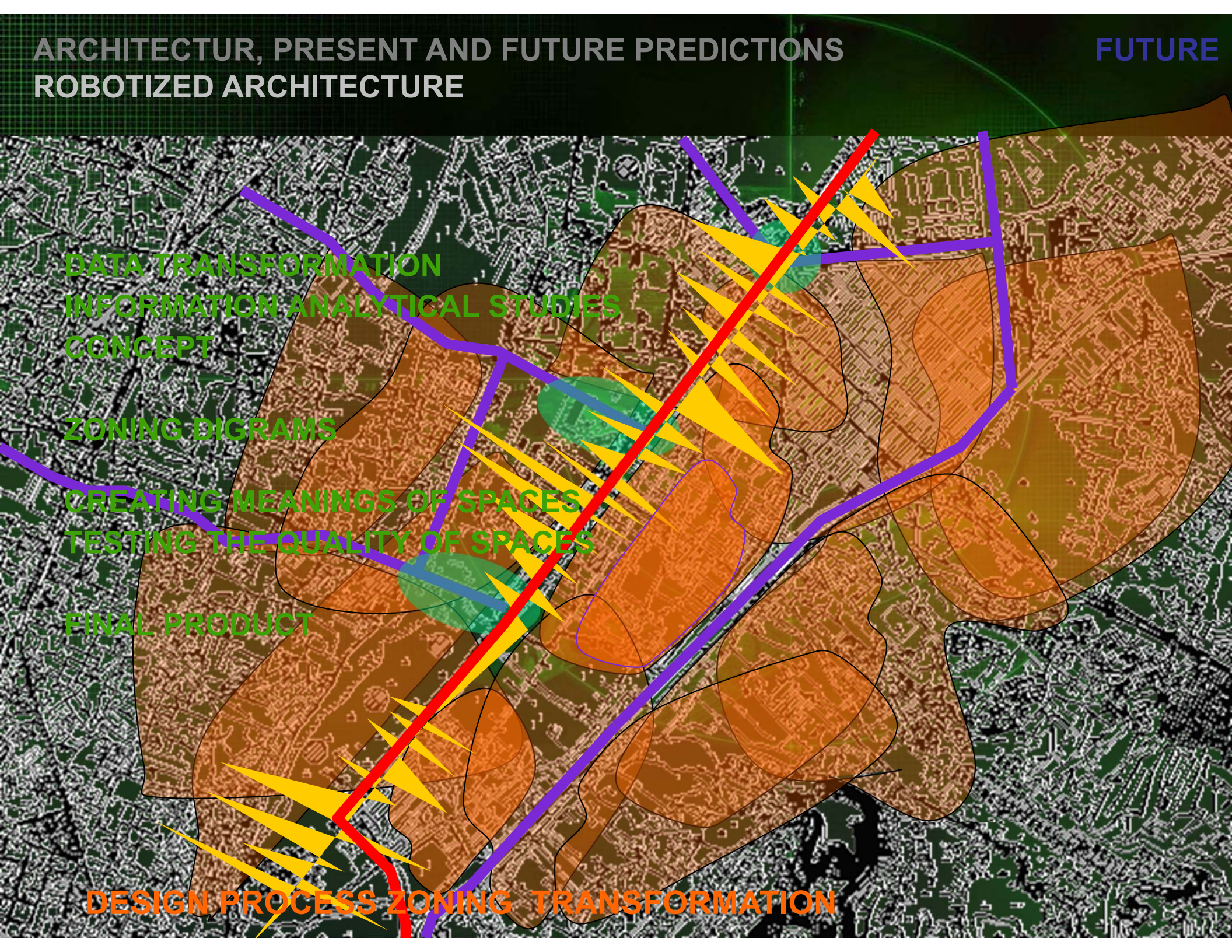
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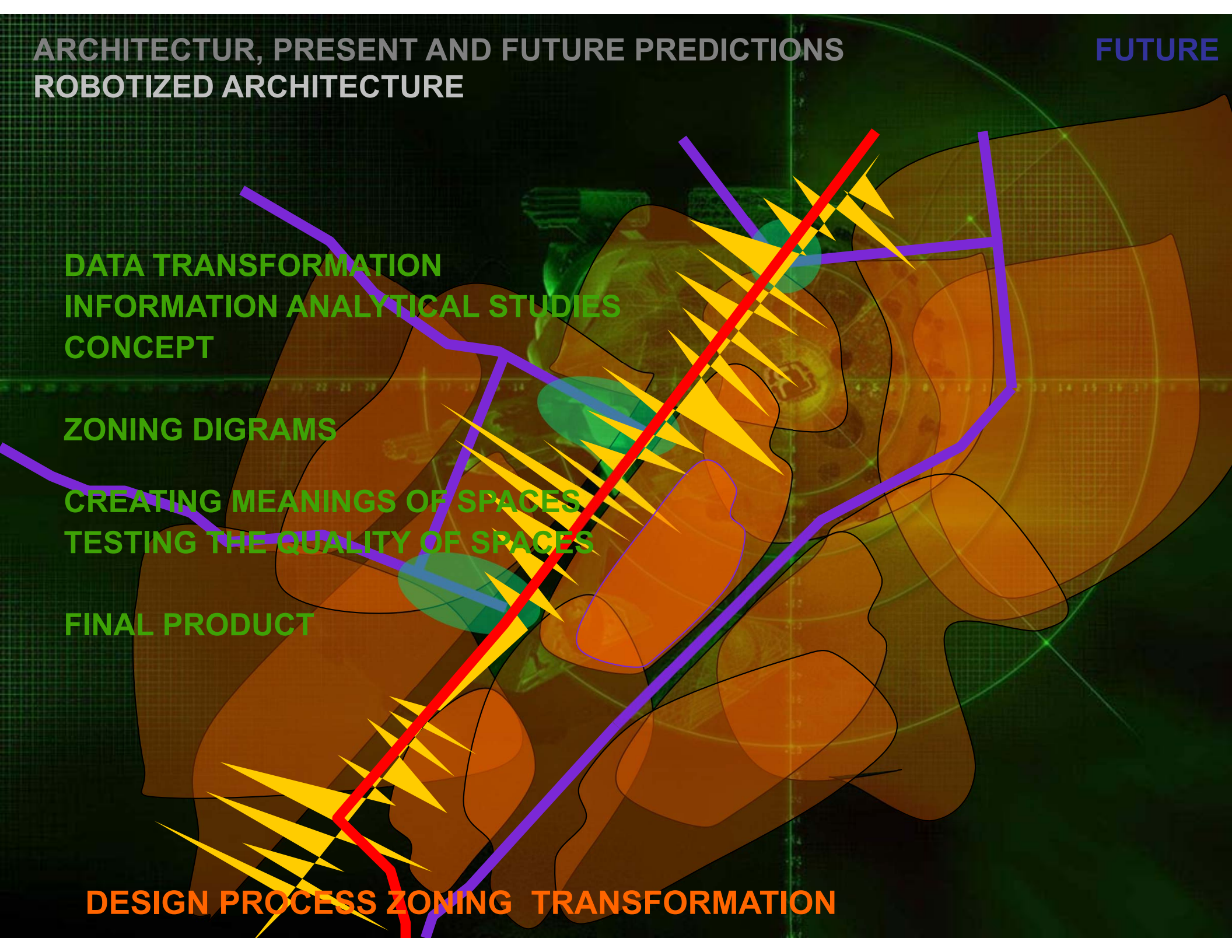
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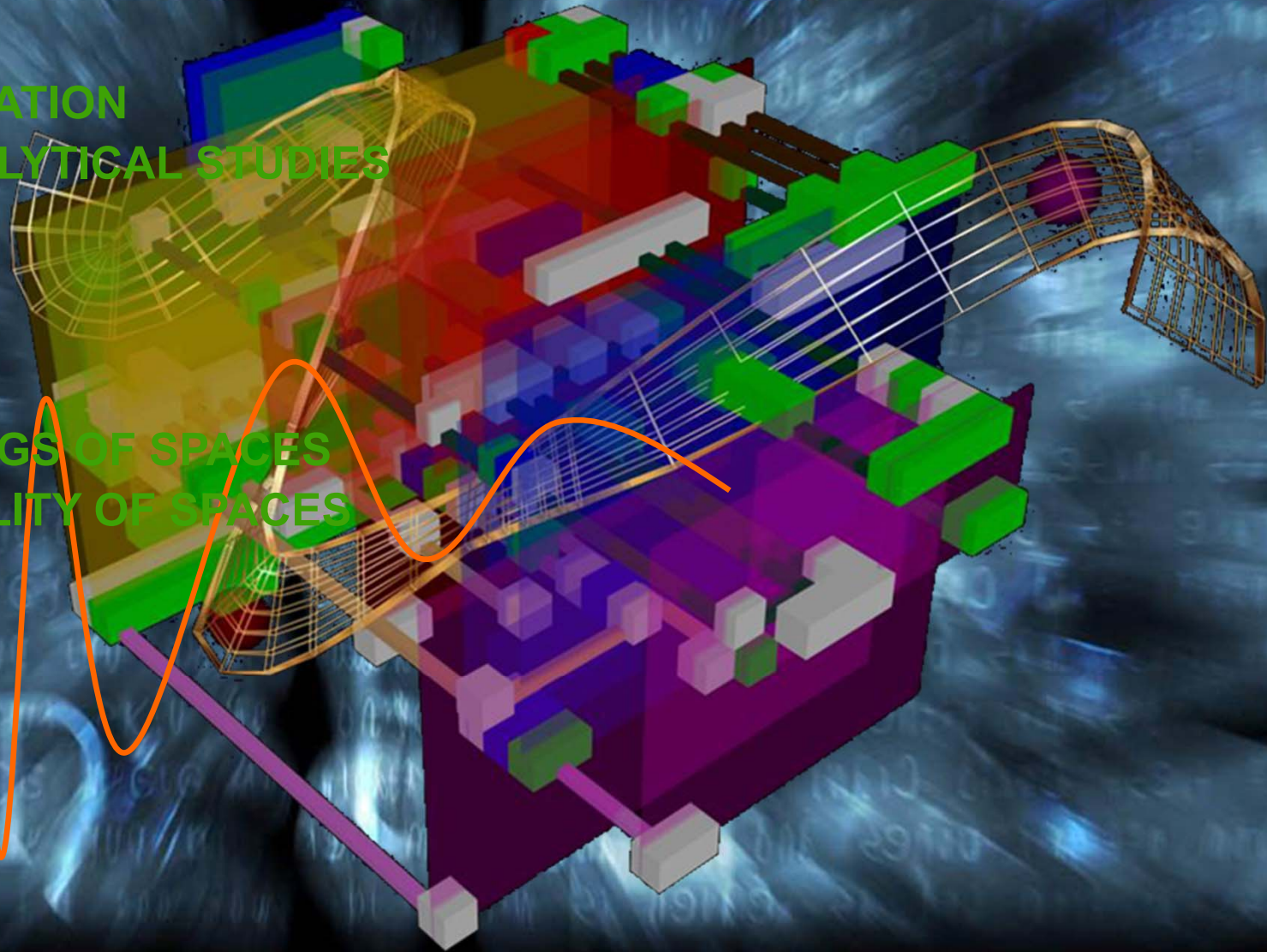
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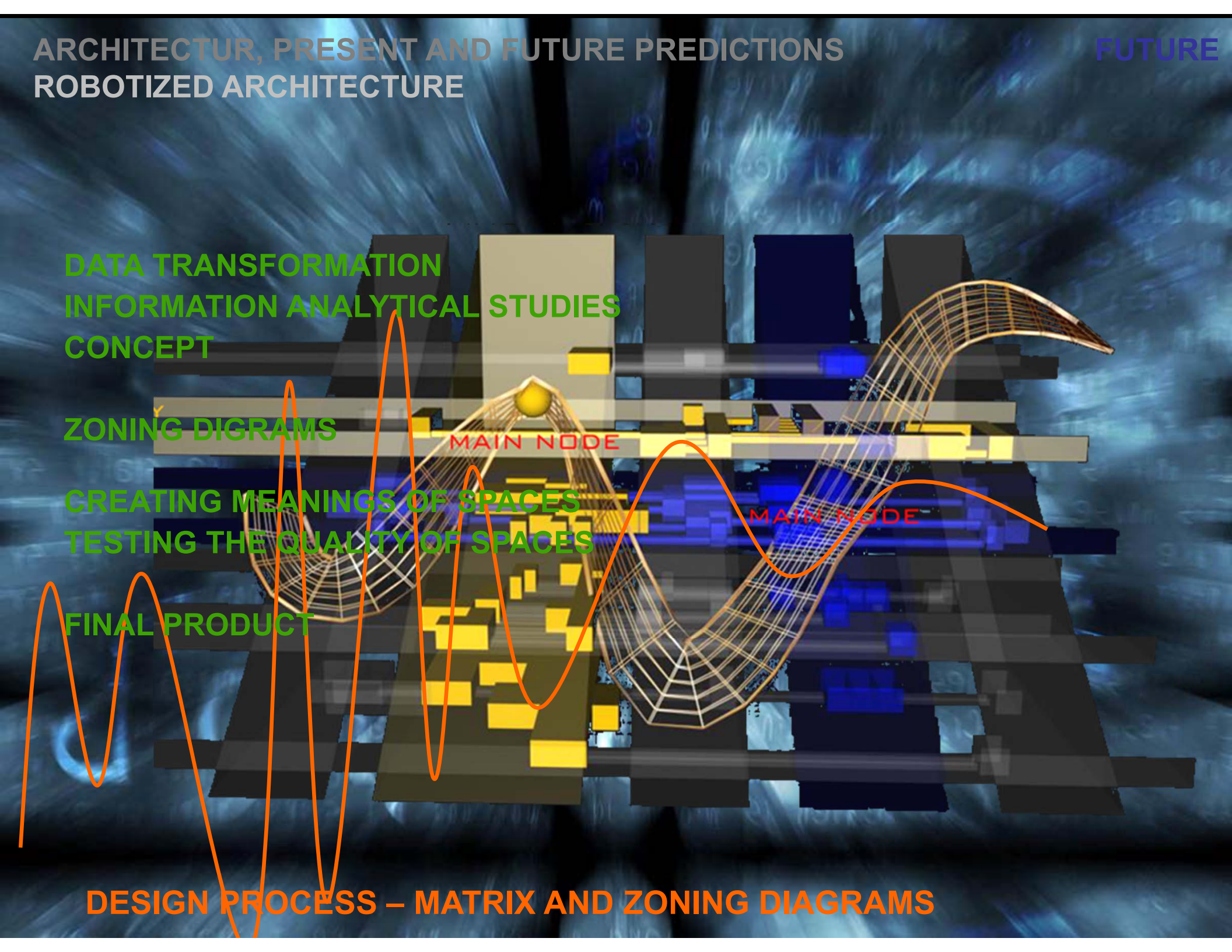
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ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

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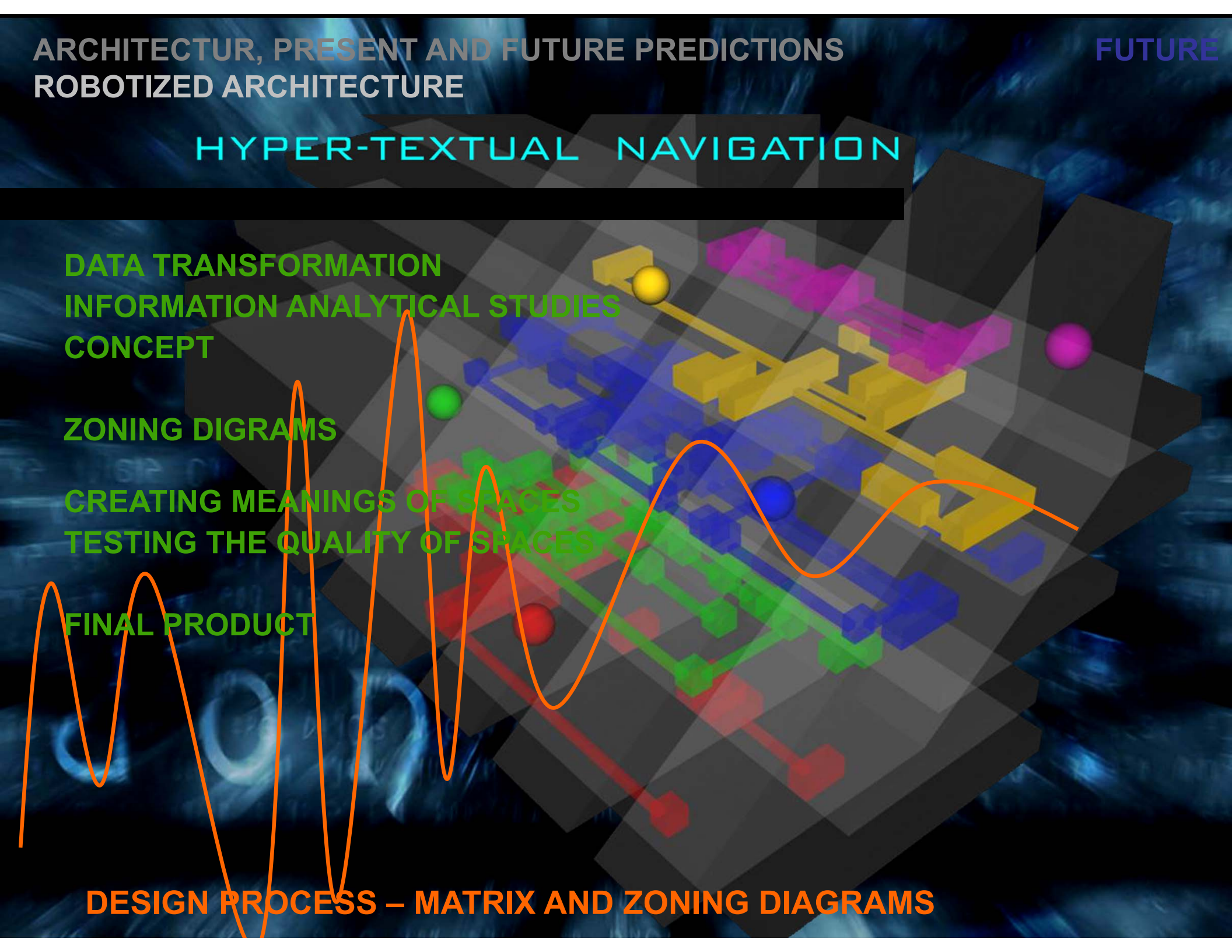
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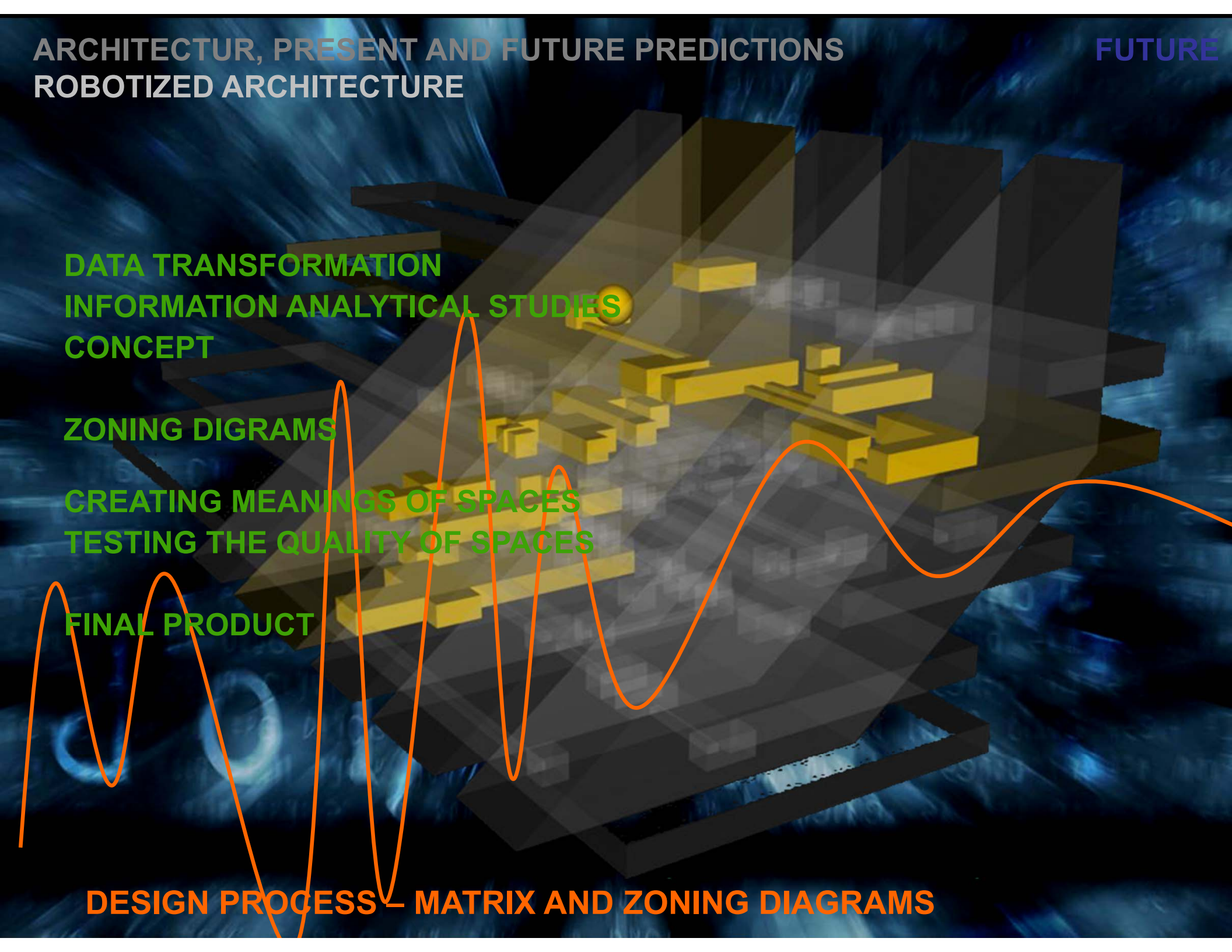
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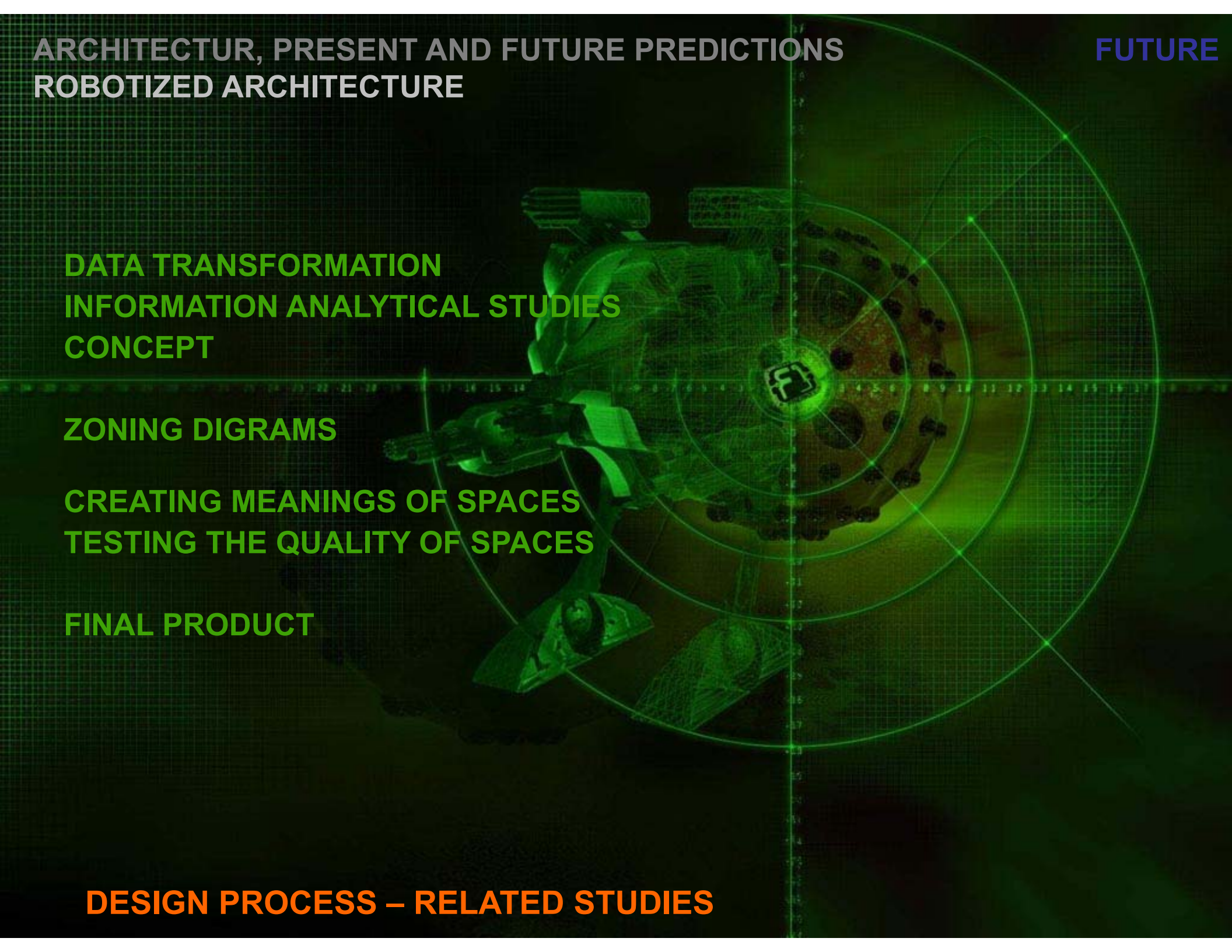
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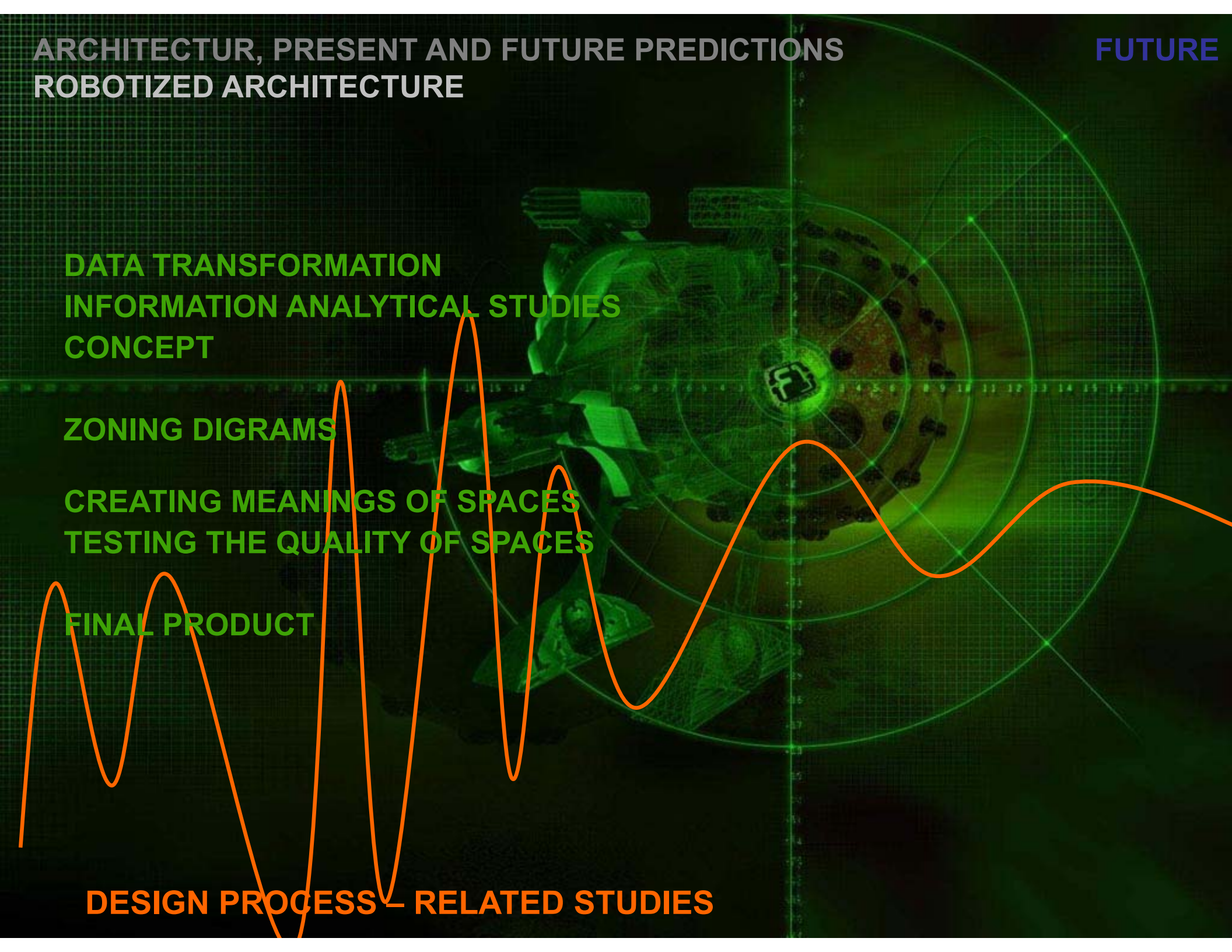
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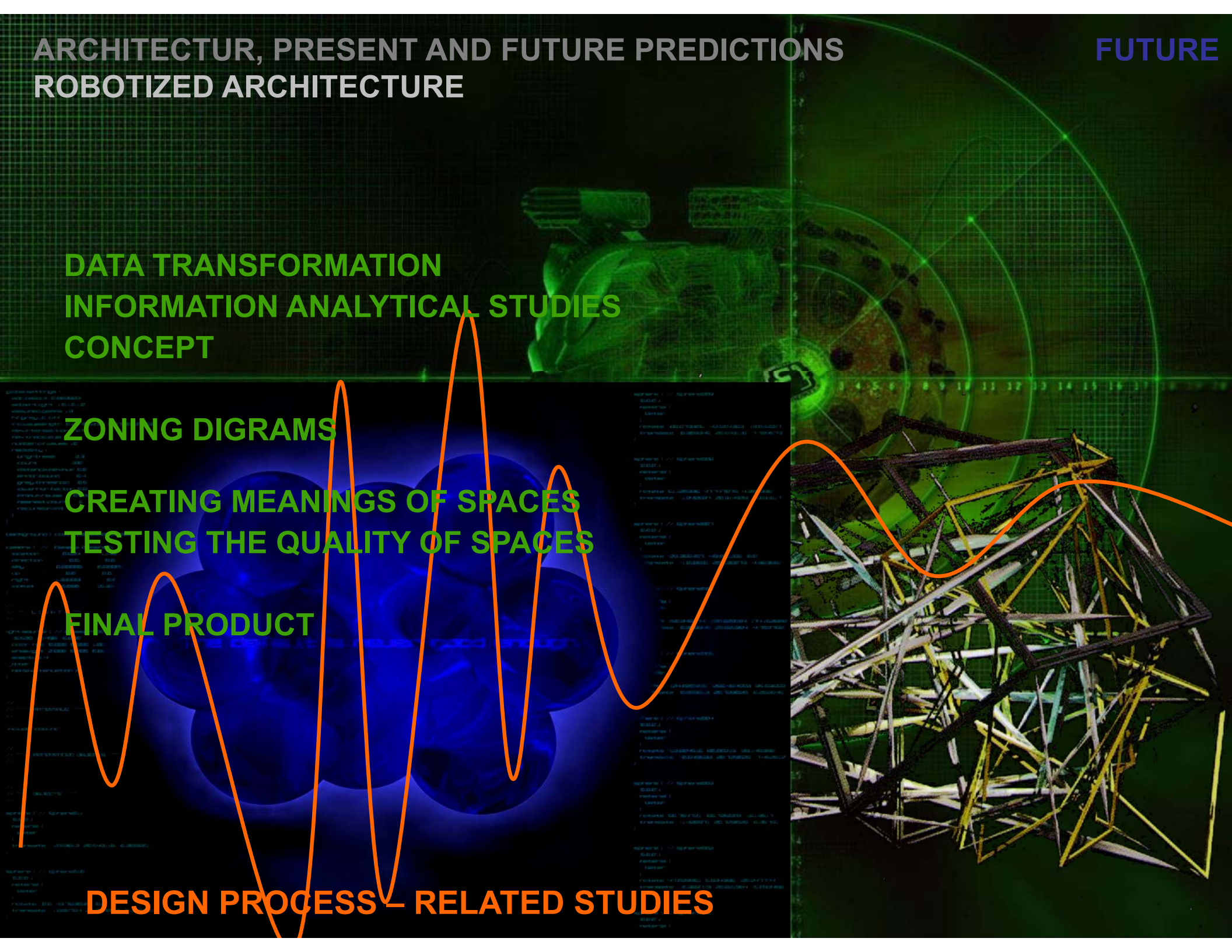
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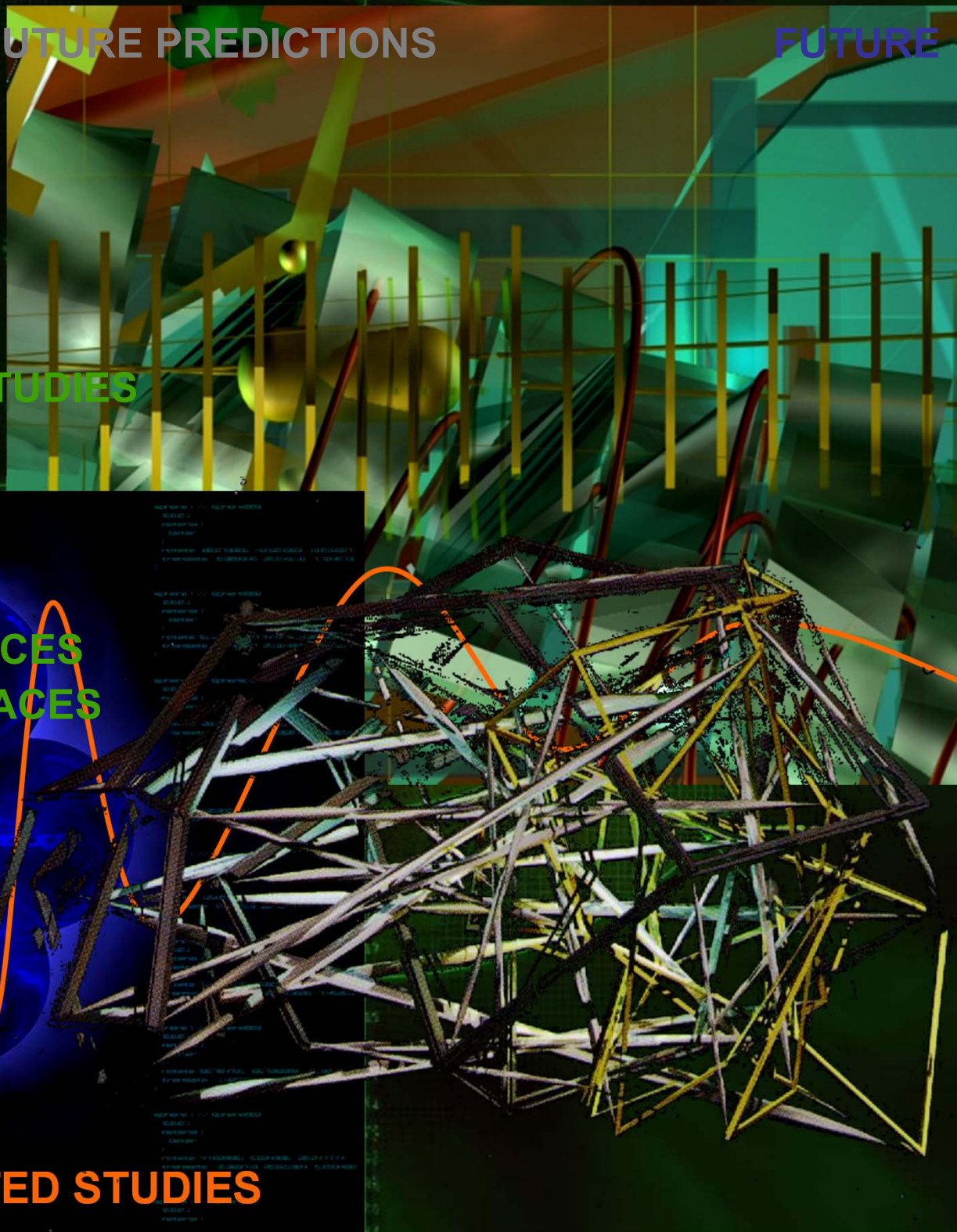
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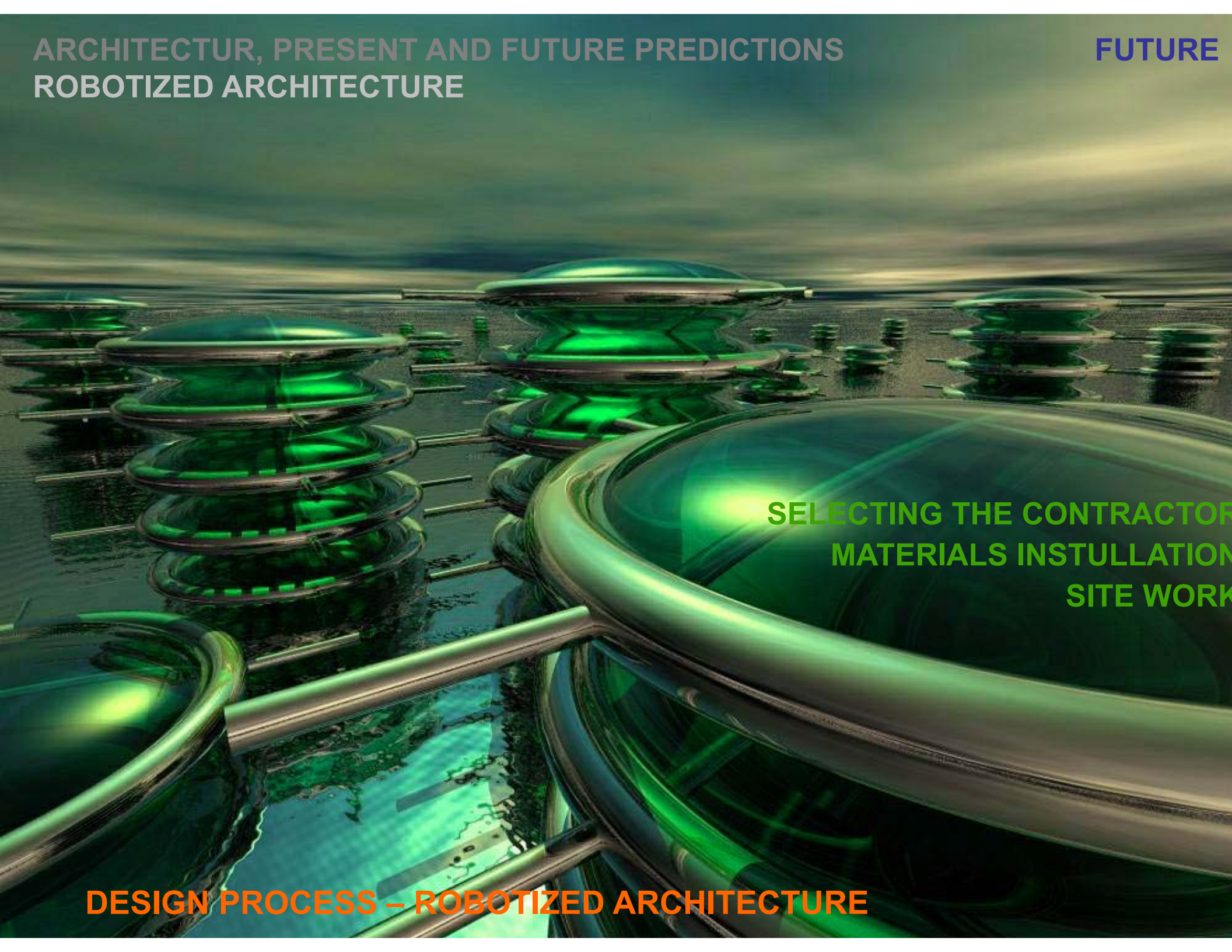
DATA TRANSFORMATION
INFORMATION ANALYTICAL STUDIES
CONCEPT

ZONING DIGRAMS

CREATING MEANINGS OF SPACES
TESTING THE QUALITY OF SPACES

FINAL PRODUCT

DESIGN PROCESS – RELATED STUDIES



ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE

SELECTING THE CONTRACTOR
MATERIALS INSTALLATION
SITE WORK

DESIGN PROCESS – ROBOTIZED ARCHITECTURE

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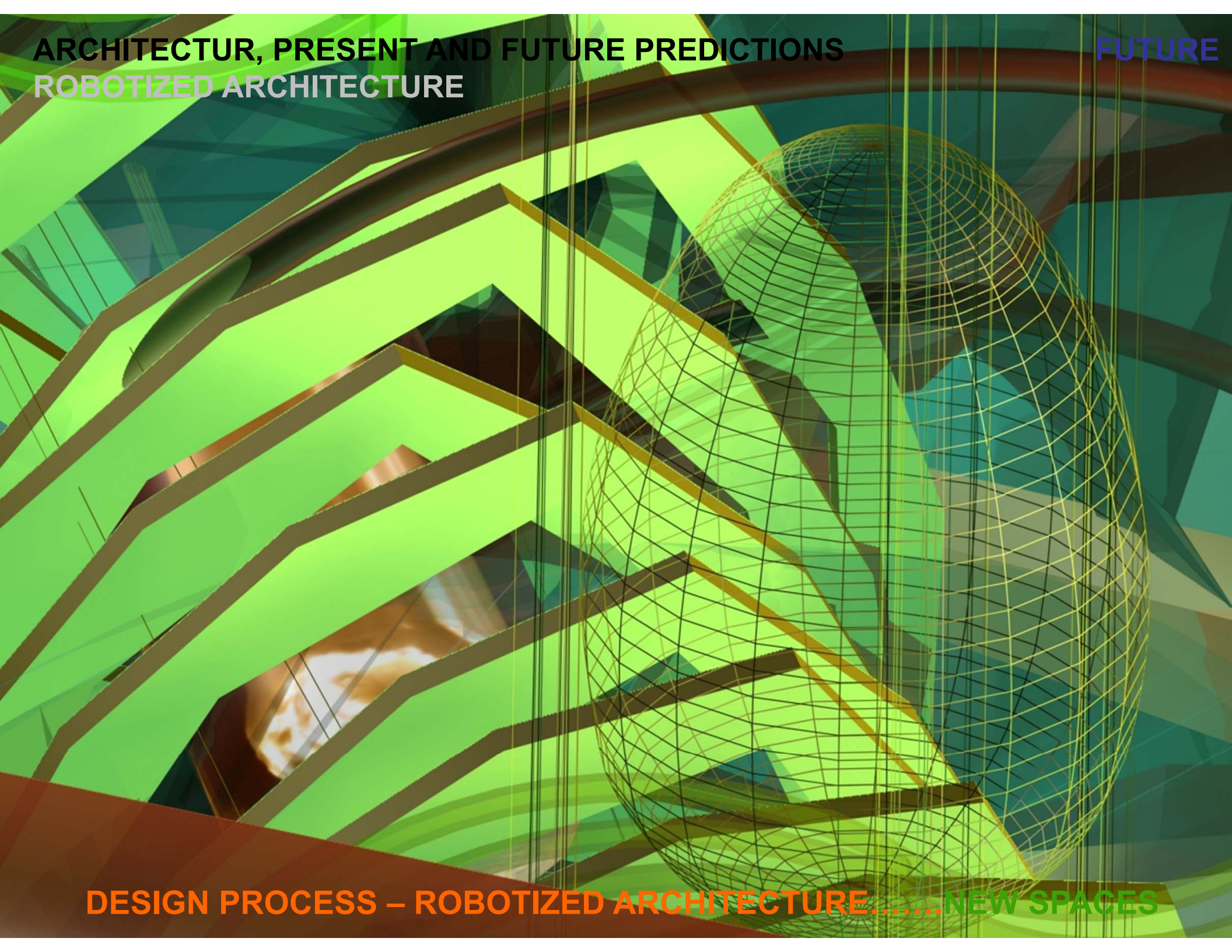
FUTURE

DESIGN PROCESS – ROBOTIZED ARCHITECTURE.....NEW SPACES

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

FUTURE

DESIGN PROCESS – ROBOTIZED ARCHITECTURE.....NEW SPACES

An abstract architectural visualization featuring a complex arrangement of green and brown geometric shapes, possibly representing a building's structure or a landscape. A large, golden wireframe sphere is positioned on the right side, partially overlapping the green shapes. The background is a mix of green and brown tones, creating a sense of depth and movement.

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE

DESIGN PROCESS – ROBOTIZED ARCHITECTURE.....NEW SPACES

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

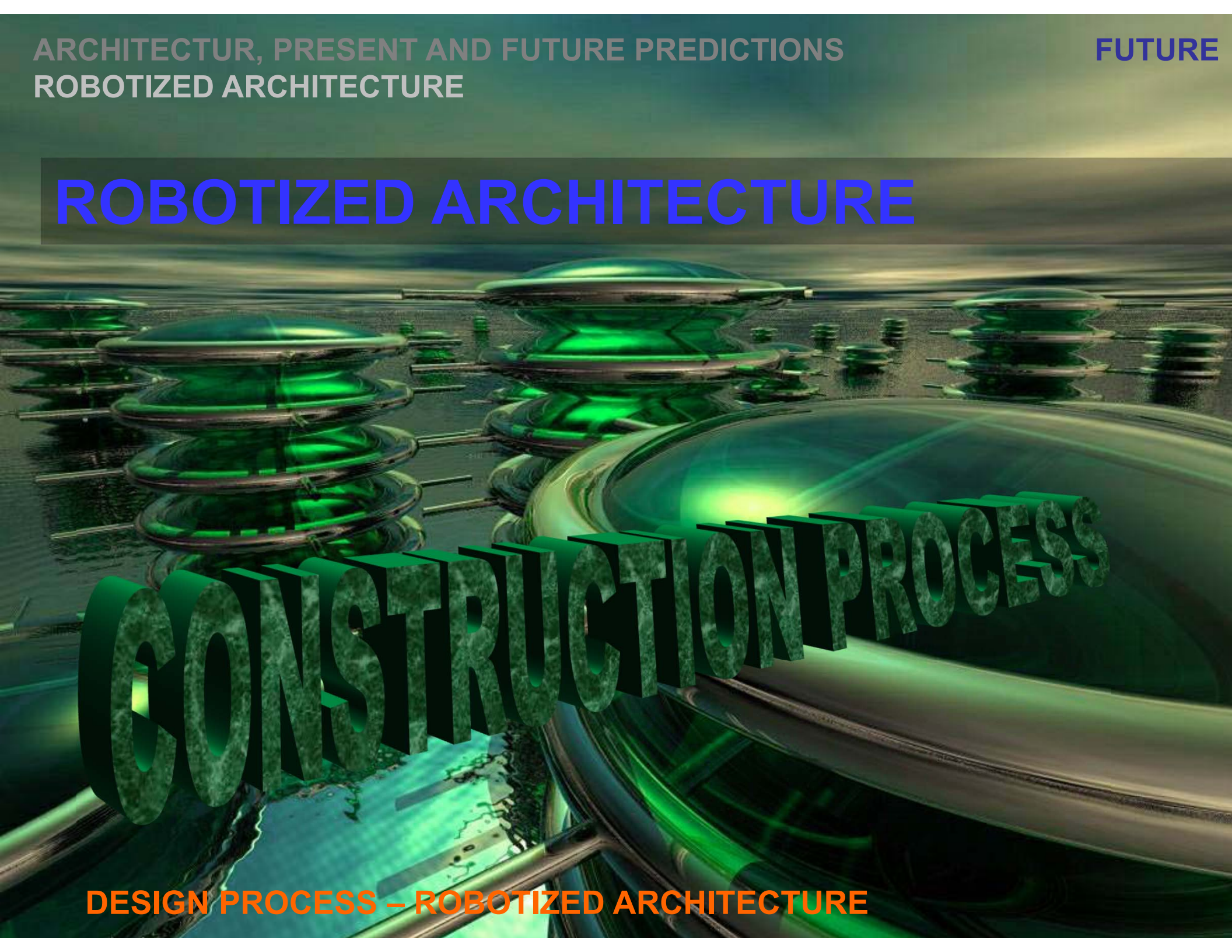
FUTURE

DESIGN PROCESS – ROBOTIZED ARCHITECTURE.....NEW SPACES

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

FUTURE

ROBOTIZED ARCHITECTURE



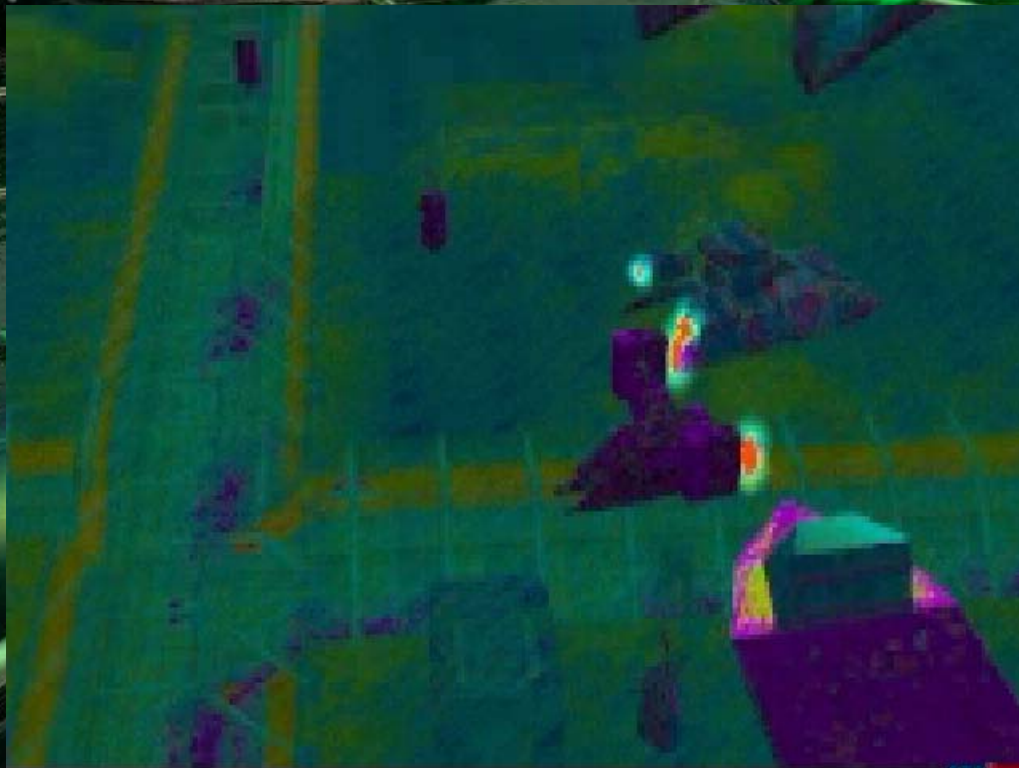
CONSTRUCTION PROCESS

DESIGN PROCESS – ROBOTIZED ARCHITECTURE

ARCHITECTURE, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE

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DESIGN PROCESS – ROBOTIZED ARCHITECTURE

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS ROBOTIZED ARCHITECTURE

FUTURE



DESIGN PROCESS – ROBOTIZED ARCHITECTURE.....NEW EARA

ARCHITECTUR, PRESENT AND FUTURE PREDICTIONS
ROBOTIZED ARCHITECTURE

FUTURE



FUTURE ??
.....NEW EARA