NEOX

NEXT GENERATION OFFICE EXPERIENCE

NEXT GENERATION OF LIVING AND WORKING

SMART BUILDING INVESTMENT BENEFITS

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30%

Digital buildings also attract a higher presence of tech, media and telecoms occupiers with a 30 % share of occupancy to their names. In non-digital buildings, this share drops by more than half at 14%.

44%

Smart Buildings, those who mix Smart features, a connected infrastructure, and a green strategy, offer a 44% premium on net rents and transaction prices per square meter

35%

Intelligent buildings commanded an estimated 5% to 35% higher sales value

43%

Investors highlighted the importance of implementing smart technology to deliver a best-in-class user experience. In fact, 43% wouldn't invest in a property that doesn't have smart technology.

30%

Optimized energy usage through the implementation of smart technologies, can achieve energy savings of around 30% compared to conventional buildings.

79%

79% of office workers would like their office to be technologically advanced.

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SMART BUILDING VALUES

HEALTH
PHYSICAL AND MENTHAL WELL BEING

Environmental Monitoring and Control: Smart buildings maintain optimal indoor air quality, regulate temperature, and adjust lighting to ensure physical comfort and reduce health risks. Air quality sensors monitor pollutants, allergens, and CO_2 levels, helping to create a healthier environment.
Wellness Features: Fitness centers and meditation rooms with integrated technology help support physical and mental well-being. Intelligent lighting systems can adapt to circadian rhythms to improve sleep and reduce stress.
Noise and Light Control: Advanced systems adjust lighting for relaxation or productivity and reduce unwanted noise pollution, promoting mental clarity and reducing stress.

SECURITY
PHYSICAL AND CYBER

Advanced Security Systems: Smart buildings use facial recognition, biometric access, and surveillance systems to ensure a high level of security for occupants. Cameras, motion detectors, and alarms are connected to a central system that can notify authorities in case of emergencies.
Emergency Response Systems: Intelligent buildings are equipped with automated fire suppression systems, emergency lighting, and clear evacuation routes. They can also have integrated alert systems to notify residents or tenants about threats like fire, flooding, or intruders.

RELATIONSHIPS
FAMILY, FRIENDS AND COMMUNITY

Connected Social Spaces: Smart buildings foster social interaction by providing well-designed communal spaces like lounges, parks, and dining areas with adjustable environments for gatherings. Smart technologies adjust ambiance to create comfortable social spaces.
Remote Communication Tools: Integrated communication systems (video conferencing, high-speed internet, etc.) allow for seamless connection with family, friends, or coworkers, supporting meaningful relationships across distances.
Community Engagement Platforms: Buildings can offer digital platforms for organizing social activities or events, encouraging engagement and relationship-building within the community.

PURPOSE
CAREER, PASSION AND MEANING

Smart Workspaces: Intelligent buildings provide optimized work environments with high-speed internet, adaptive lighting, and ergonomic furniture, enhancing productivity and creativity for those working from home or within the building.
Creative and Learning Spaces: Many smart buildings feature designated areas for personal projects, creativity, or collaboration, equipped with technology to support a range of activities from art to software development.
Personalization: Occupants can customize their living or working spaces through connected devices to suit their needs, helping them achieve better focus, comfort, and motivation in pursuing their goals.

STABILITY
FINANCIAL AND FREEDOM

Energy Efficiency: Smart systems monitor and control energy usage based on occupancy and time of day, reducing utility costs for heating, cooling, and lighting. This can significantly lower operating expenses, helping occupants manage their finances.
Predictive Maintenance: Intelligent buildings use sensors to predict when maintenance is needed (e.g., for HVAC systems or plumbing), preventing costly repairs by addressing issues early.

SUCCES ELEMENTS

DATA
is the New Oil

Data is abundant: Like oil, data is immensely valuable for smart buildings. Data serves as the lifeblood of smart buildings, driving their core functionalities. By capturing and analyzing data from an array of sensors, devices, and systems, smart buildings gain actionable insights. This enables real-time monitoring, predictive maintenance, and optimal performance management, all of which contribute to energy efficiency, cost reduction, and improved occupant comfort. Accurate, high-quality data is crucial for making informed, strategic decisions.

INTEGRATION
unlocks Its Power

Integration is Key: However, without the right integration systems in place, this data is fragmented and underutilized. Effective system integration is crucial for transforming isolated building systems—like HVAC, lighting, security, and energy management—into an interconnected network. Integration enables the comprehensive collection and analysis of data from these systems. Without proper integration, the building cannot access the rich data needed for insights and automation, making it the backbone that supports all other smart building functionalities..
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AI
makes it as a Product

AI Turns Data into Intelligence: AI transforms automation into intelligent action, but it depends on large-scale data provided by integrated systems. AI algorithms learn from this data to predict patterns, optimize resource usage, and adapt the building's operations in real-time. This creates smarter, self-regulating environments that continuously improve efficiency, energy management, and occupant comfort. AI is the key that unlocks advanced decision-making and automation, making smart buildings more intuitive and effective.

SECURITY
protect it's Value

Safeguarding Data and Systems: With interconnected devices and systems generating vast amounts of data, cybersecurity becomes critical. Protecting this data from cyber threats ensures the security of both the building's operations and its users. Robust cybersecurity protocols—such as data encryption, access control, and threat detection—are essential to prevent breaches, ensuring users' confidence and the integrity of the building's systems. Without strong security, data-driven intelligence and user experience are vulnerable to disruption, which could compromise the entire smart building ecosystem.

USER EXPERIENCE
sells it

Putting People at the Center: successful user experience (UX) in smart buildings is more than just technology—it is about addressing the five fundamental human priorities: **Health, Security, Relationships, Purpose, and Financial Stability**. Through smart building systems, users benefit from healthier, safer environments, enhanced connectivity, and personalized interactions, all while the building optimizes operational costs and energy savings to contribute to financial well-being. UX is built on AI-driven intelligence and security, ensuring that interactions are smooth, personalized, and intuitive. Whether through touchless controls, voice commands, or mobile interfaces, the building adapts to users' needs, enhancing comfort and productivity

SMART BUILDING INVESTMENT BENEFITS

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Financial benefits
- Cost Reduction in energy consumption / energy costs (i.e. through HVAC analytics)
- Reduction in equipment maintenance costs (due to fault detection / predictive maintenance)
- Reduction in maintenance staff time, and subsequent staff costs (cleaning route optimization, dynamic scheduling)

Asset valuation
- Increase asset value associated with more future-proofed smart buildings
- Increased revenue
- Reduced rental voids - smart buildings attract and retain better tenants

Non-financial benefits
- Human productivity - i.e. health & wellness

Example: Air Quality - increased cognitive performance with good air quality. Smart technology to link building utilization to air flow (HVAC) means more productive end users across various cognitive domains.

STAND OUT IN A COMPETITIVE REAL ESTATE MARKET

OCCUPIERS PREPARED TO PAY 20% PREMIUM

VISION

Our vision is to revolutionize the intelligent building industry by delivering innovative, sustainable, and integrated solutions that increase the return of investment to Real Estate Developer, enhance the efficiency to Real Estate Operators and create the BEST place for people to live or work and having an innovative experience to feel more safe, connected, balanced

We aim to lead the region in smart building technology, setting new standards of excellence, and expanding our footprint globally to shape the future of intelligent infrastructure worldwide

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WHO IS NEOX?

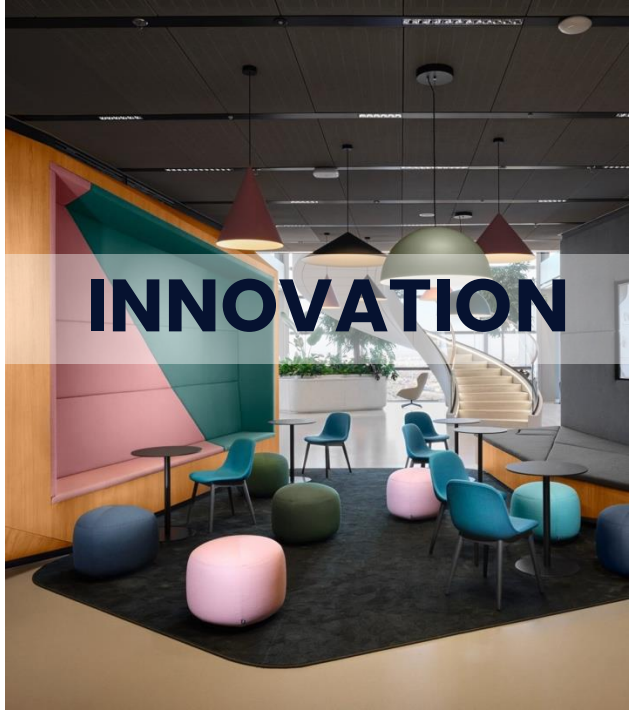
WE CREATED THE ONE OF THE MOST APPRECIATED AND AWARDED SMART BUILDING IN EUROPE

WE HAVE 7 YEAR OF EXPERIENCE WE LEARNED FROM OUR FAILOURES

SAVE MILLIONS AND SEVERAL YEARS WITH US

PRODUCTIVITY

MOBILITY


INNOVATION

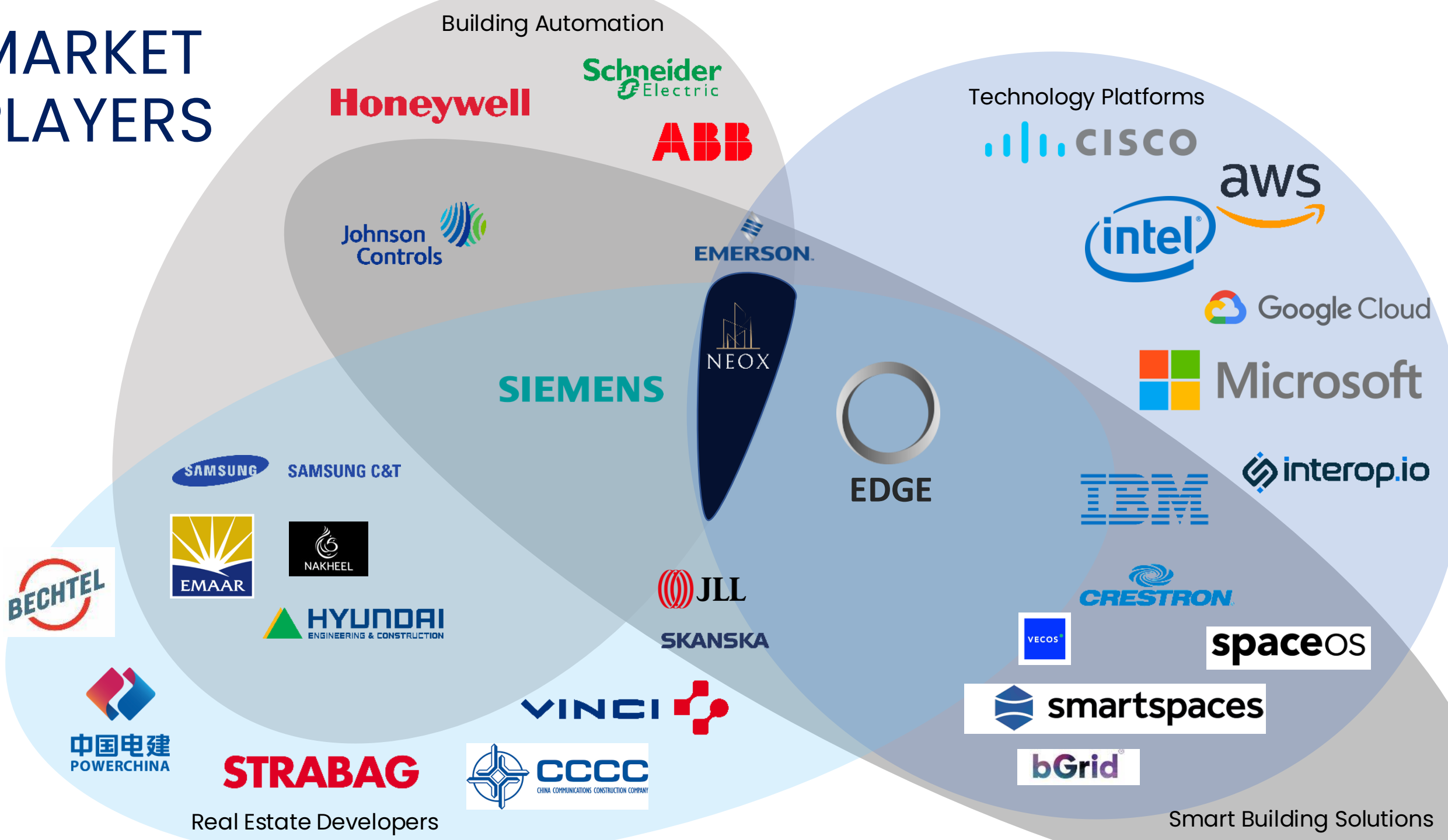
TEAMWORK

TALENT
ATTRACTION

SUSTAINABILITY

PLATINUM
smart building certification
LEED
PLATINUM
2022
BREEAM
EXCELLENT
BRE GLOBAL
WELL
AWARDS AND CERTIFICATES
AZ ÉV IRODÁJA
FIABCI WORLD PRIX
D'EXCELLENCE AWARDS
NIVÓ DÍJA
ÉPÍTŐIPARI NÍVÓ DÍJ
WORLD GOLD WINNER
MOL Campus
WORLD GOLD WINNER
MOL Campus

MARKET PLAYERS



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WHY NEOX?

WE KNOW THE MARKET

WE HAVE A CLEAR DEFINITION OF SMART BUILDING

WE HAVE APPROPRIATE KNOWLEDGE AND EXPERTISE AND A STEEP LEARNING CURVE

WE HAVE A FUTURE-PROOF TECHNOLOGY, CONFIRMED BY THE MARKET

WE KNOW THAT NO READY-MADE SOLUTION IS AVAILABLE ON THE MARKET

SAVE MILLIONS AND SEVERAL YEARS WITH US

HOW WE DESIGN THE BEST SMART BUILDING?

FACILITY-CENTRIC SMART BUILDING

- REDUCE ENERGY CONSUMPTION AND CARBON FOOTPRINT OF THE BUILDING
- MAINTAIN INFRASTRUCTURE
- COMPLY WITH REGULATIONS
- REDUCE OPERATING COSTS.
- REDUCE THE NEED FOR INSPECTION.
- REDUCE ERRORS AND FAILURES.
- IMPROVE BUILDING SAFETY
- STABLE ENVIRONMENT AND LESS TOLERATED WITH CHANGES

PEOPLE-CENTRIC SMART BUILDING

- STARTS WITH PEOPLE'S JOURNEYS
- IMPROVE EFFICIENCY OF PEOPLE
- MAINTAIN WELLBEING OF PEOPLE
- FOCUSES OF DESIGN/UX/ENJOYMENT
- CONSTANTLY CHANGING ENVIRONMENT, FOCUSES ON INDIVIDUAL RATHER THAN SPACES, ROOMS, FACILITIES

SMART BUILDING SHOULD COMBINE ALL AS A STRONG BASIS

NEOX SERVICES

Consultancy

Our Service can bridge the gap between traditional building management practices and the latest in smart building technologies, ensuring that investments in smart technologies deliver maximum value in terms of sustainability, efficiency, productivity, and security.

Program management

Smart Building Program/ Project Management plays a crucial role in the successful implementation of smart technologies within buildings, ensuring that the integration of these systems delivers tangible benefits. Our service facilitate the strategic integration of technology into building projects, focusing on achieving high standards of sustainability, efficiency, productivity, and cybersecurity

System Integration

As an Integrator specializes in combining various Smart systems and services within a building to create a cohesive, intelligent environment. This integration enhances the functionality, efficiency, and comfort of the building, making it truly "smart."

- System Design and Integration
- IoT Devices and Sensor Implementation
- Software and Platform Development
- User Interface and Experience Design
- Security and Access Control Systems
- Energy Management
- Data Collection
- AI based rep

Certification

We can aid clients to achieve various certifications plays a crucial role in demonstrating a building's adherence to industry standards. Through strategic guidance, management of the certification process, and implementation of best practices, such companies help clients demonstrate their commitment to sustainability and well being.

WiredScore CERTIFIED

SmartScore CERTIFIED

LEED

BREEAM

NEOX VALUES

Sustainability

Conducting detailed analyses to identify areas where energy and resources can be reduced using Smart Solutions.

Helping clients develop long-term sustainability goals and actionable plans, including the selection of renewable energy sources, materials, and waste management systems.

Assisting with sustainability reporting based on possible data points and ensuring compliance with local and international environmental regulations.

Efficiency

Advising on the implementation of smart building technologies to optimize building operations, reducing energy costs and improving overall efficiency. Create scenarios how to use data analytics and AI to provide insights into energy and operational efficiency, identifying patterns and areas for improvement.

Offering strategies for the entire lifecycle of building assets to ensure they are maintained efficiently and replaced in a cost-effective manner.

Productivity

Advising on the use of smart technologies to create adaptive workspaces that improve occupant comfort and productivity. Recommending integrated technology solutions that enhance communication and collaboration among building occupants.

Providing strategies for leveraging smart building technologies to enhance the user experience, making buildings more intuitive and responsive to occupant needs.

Cyber Security

Conducting cybersecurity risk assessments specifically for smart building systems and infrastructure.

Advising on cybersecurity policies, best practices, and compliance with standards such as ISO/IEC 27001 and NIST 800 SF.

Offering training programs for building managers and staff on cybersecurity best practices and awareness, ensuring they understand the potential cyber security risks and how to mitigate them.

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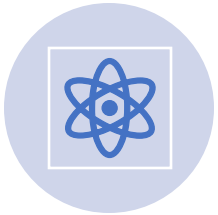
NEOX PLATFORM

SOLID FOUNDATION IS ALWAYS THE MOST IMPORTANT

ROBUST AND SCALABLE ARCHITECTURE

API BASED

CYBER SECURITY FROM DESIGN



FUTURE-PROOF TECHNOLOGY

SAVE MILLIONS AND SEVERAL YEARS WITH US

PLATFORM DESIGN PRINCIPLES

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1. Vision of the whole ecosystem end-to-end

2. Modular approach

3. API first design

4. N-tier microservices

5. Focus on end user experience

6. Bring together IT, IOT and OT systems

7. IaaC for easy reproduction

8. Cloud first design

NEOX PLATFORM

External systems

ASSA ABLOY

commend

Salto

PELCO

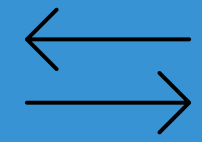
vecos

bGrid
building data for all

TRIRIGA
An IBM Company

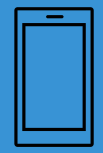
Integration

Aggregate communication with the necessary business logic



Presentation

User facing applications



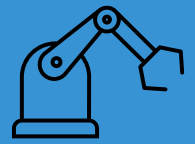
Smart

Business logics, Schedulers, Machine learning models

Data

Datawarehouse, Streaming data, Digital twins

Intake



IOT Gateways, Software and Hardware Gateways

OT systems

EMS Panorama™ 2.0
Elevator Management System

WinCC®
Professional

NEOX PRESENTATION LAYER

Presentation

User facing applications

IOS mobile application

React Web application

Administrator application

Report application

API endpoint

NEOX INTEGRATION LAYER

Integration

Aggregate communication with the necessary business logic

API Gateways

API Developer portal

Backend for Frontend

Data Exchange Gateways

NEOX INTAKE LAYER

Intake

IOT Gateways, Software and Hardware Gateways

IOT Hub

IOT Software Gateways

IOT Hardware Gateways

Datapoint logic and buffer

NEOX SMART LAYER

Smart

Business logics, Schedulers, Machine learning models

Event-driven

Serverless microservices

Scheduler and booking services

Machine learning models

Notification engine

Central user provision

Locker management

Parking management

NEOX DATA LAYER

Data

Datawarehouse, Streaming data, Digital twins

Streaming Databases

Data warehouse Lakehouse architecture

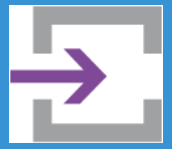
Extract, transform and load

Data lake storage

Database caching

Stream analytics

Digital Twins



Time Series insights

POWER OF AI

- NEOX Platform capable to collect all Smart Building Data and Events
- Artificial Intelligence based Operational Dashboard
- Machine Learning for predictive maintenance
- Intelligent Chatbot for User Experience

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NEOX WORKING METHODOLOGY

AGILITY IS THE FOUNDATION

WE BELIVE IN TO PROVIDE EXPERIENCE

UNDERSTANDING THE NEEDS IS CRUCIAL

IT IS A MUTUAL WORK

DELIVER ON BUDGET AND TIME

SAVE MILLIONS AND SEVERAL YEARS WITH US

IMPLEMENTATION JOURNEY

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1. Definition of Smart building with Management. Find the most flexible and most demanding concept

2. Focus group interviews with stakeholders to define personas and user journeys

3. Establishing the experience principals and working model and employee focused service-based concept

4. Defining the personas and user journeys for services and use cases

5. Define and deconstruct the journeys to new services by Blueprinting for use cases

6. Design the ideal architecture for our new way of working and the smart building fundamentals

7. Customize NEOX smart building platform, build up the ecosystem and develop the touchpoints and frontends

8. Design, develop & deliver our touchpoint ecosystem and digital companions for all services

1-2. RESEARCH & DESIGN WORKSHOPS

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3. EXPERIENCE PRINCIPLES

Be transparent and understood

- Know the process by name, title, flow, status
- Know the activities that are handed off or I'm interacting with
- Knows who I work with and how I could best work with

Be my guide and support

- Scenarios and goals users want to achieve
- Take off the load, make it easier
- Where does it start and end; what is required from me

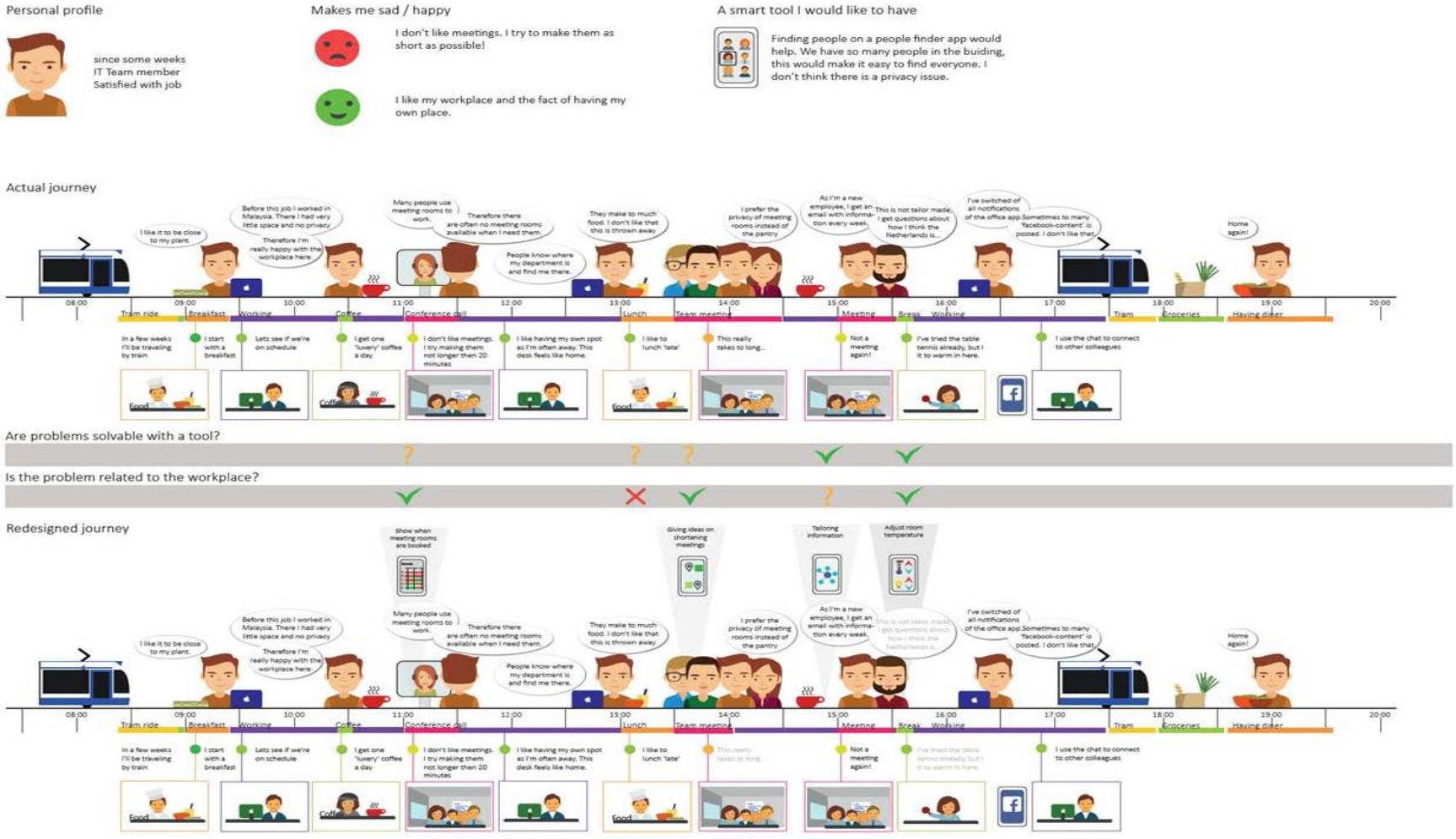
Be personal and human

- Find and build relationships with colleagues
- Personalized
- Know who I'm interacting with
- Know what I'm interacting with

Be around me and adapt

- Surrounding adapts to the needs of the users
- Personalized

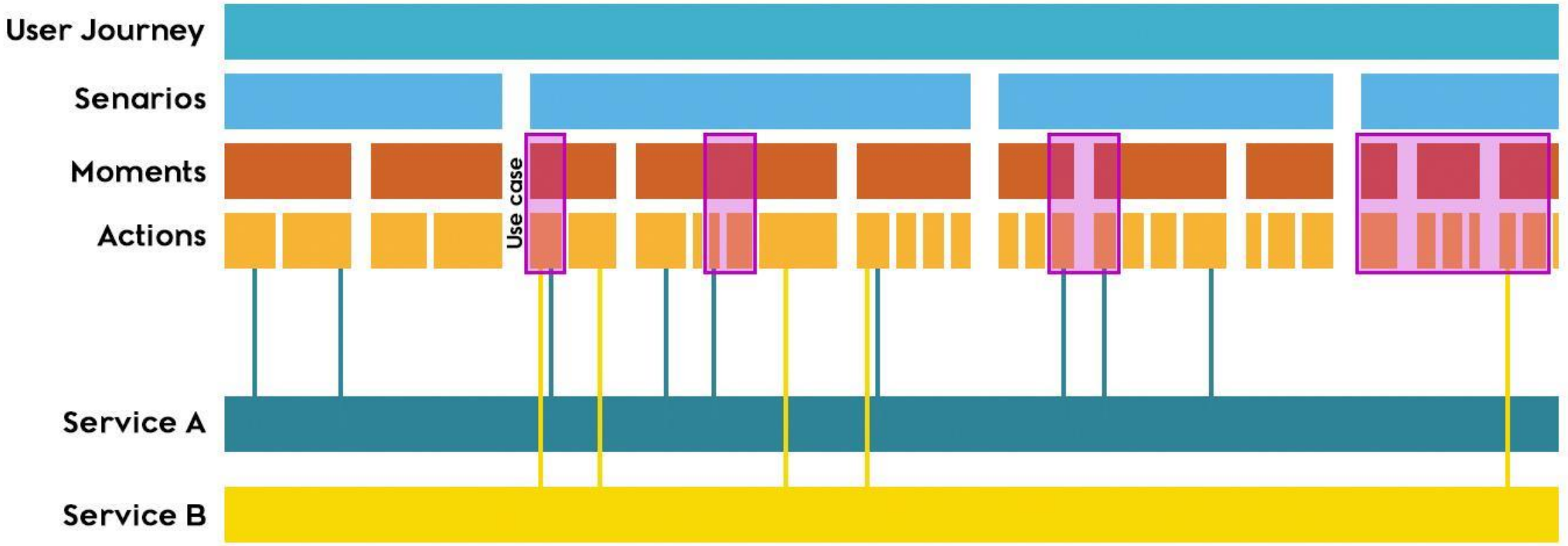
4. PERSONAS & USER JOURNEYS



Equipment Management | Energy Management | Security and Safety | Space utilization | Physical Workspace | Digital Workspace

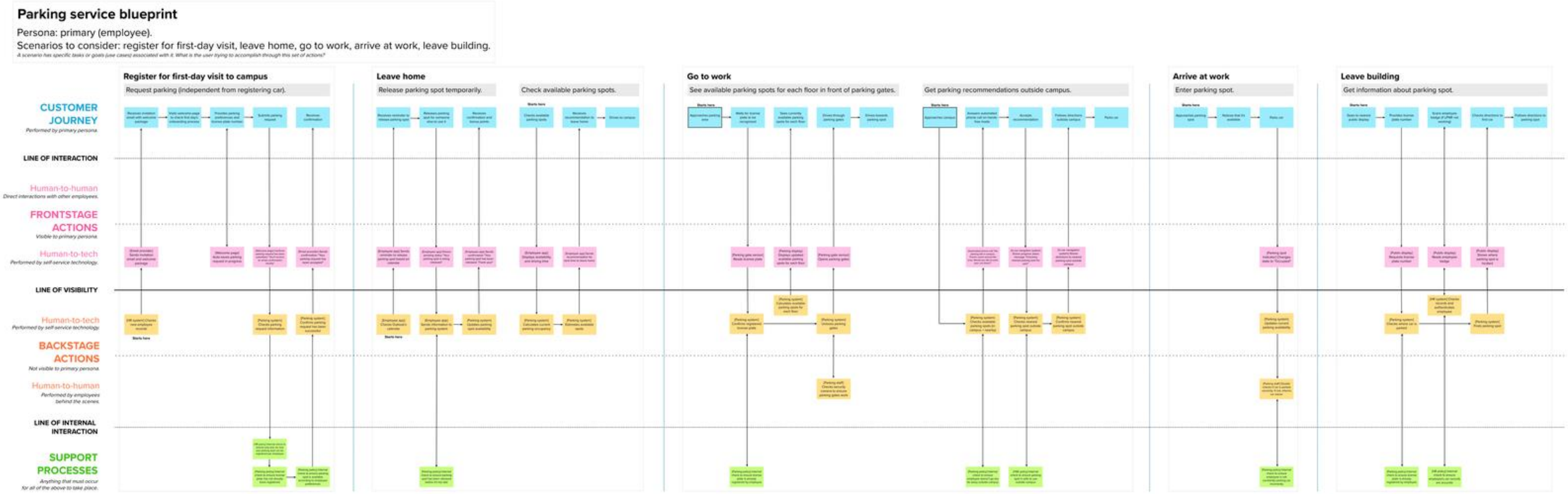
5. SERVICE DESIGN

DEFINE AND DECONSTRUCT THE JOURNEYS...



5. SERVICE DESIGN

... TO NEW SERVICES BY SERVICE BLUEPRINTING



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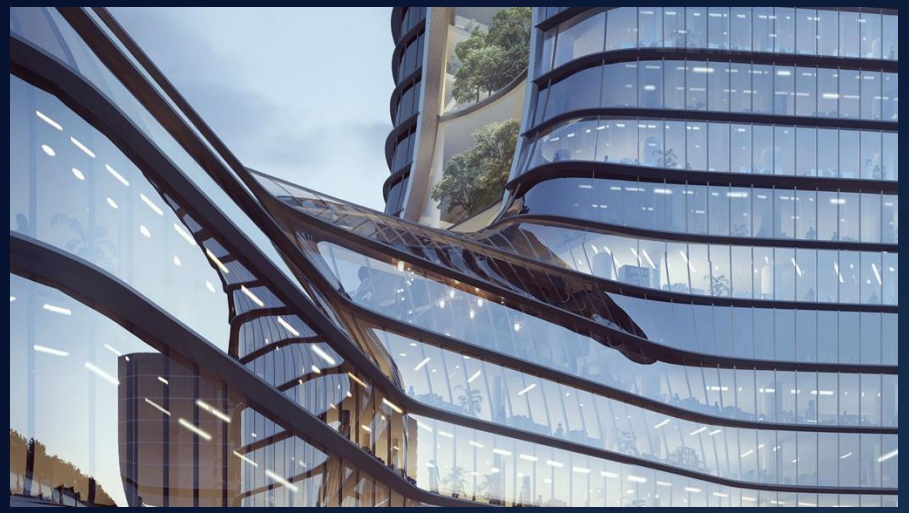
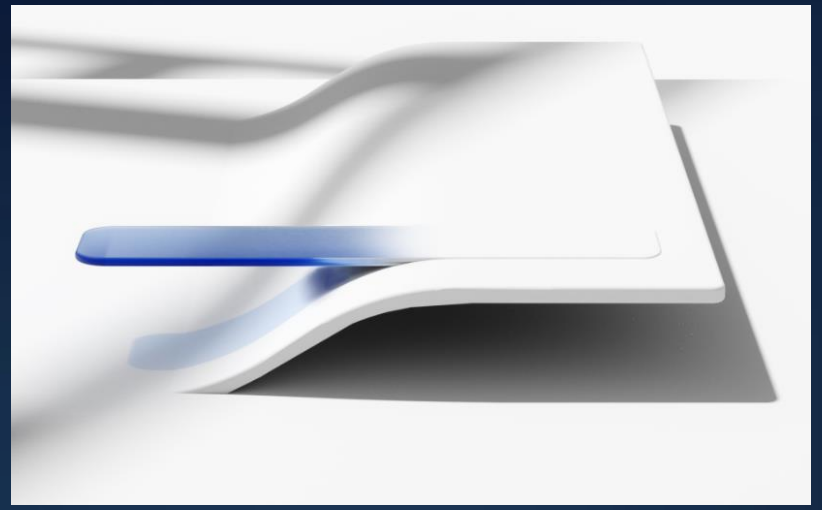
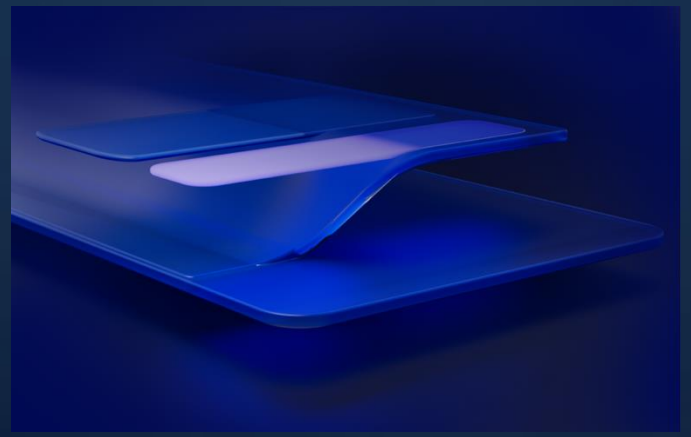
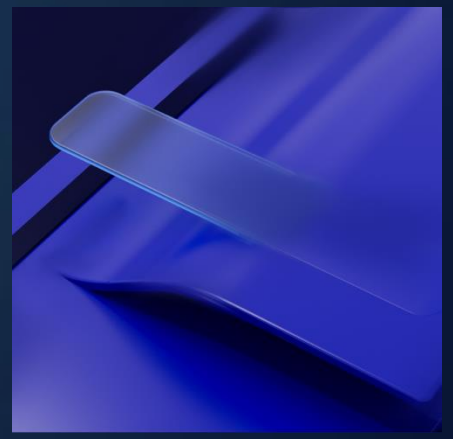
8. ART DIRECTION









8. IMPLEMENT ART DIRECTION TO UI DESIGN

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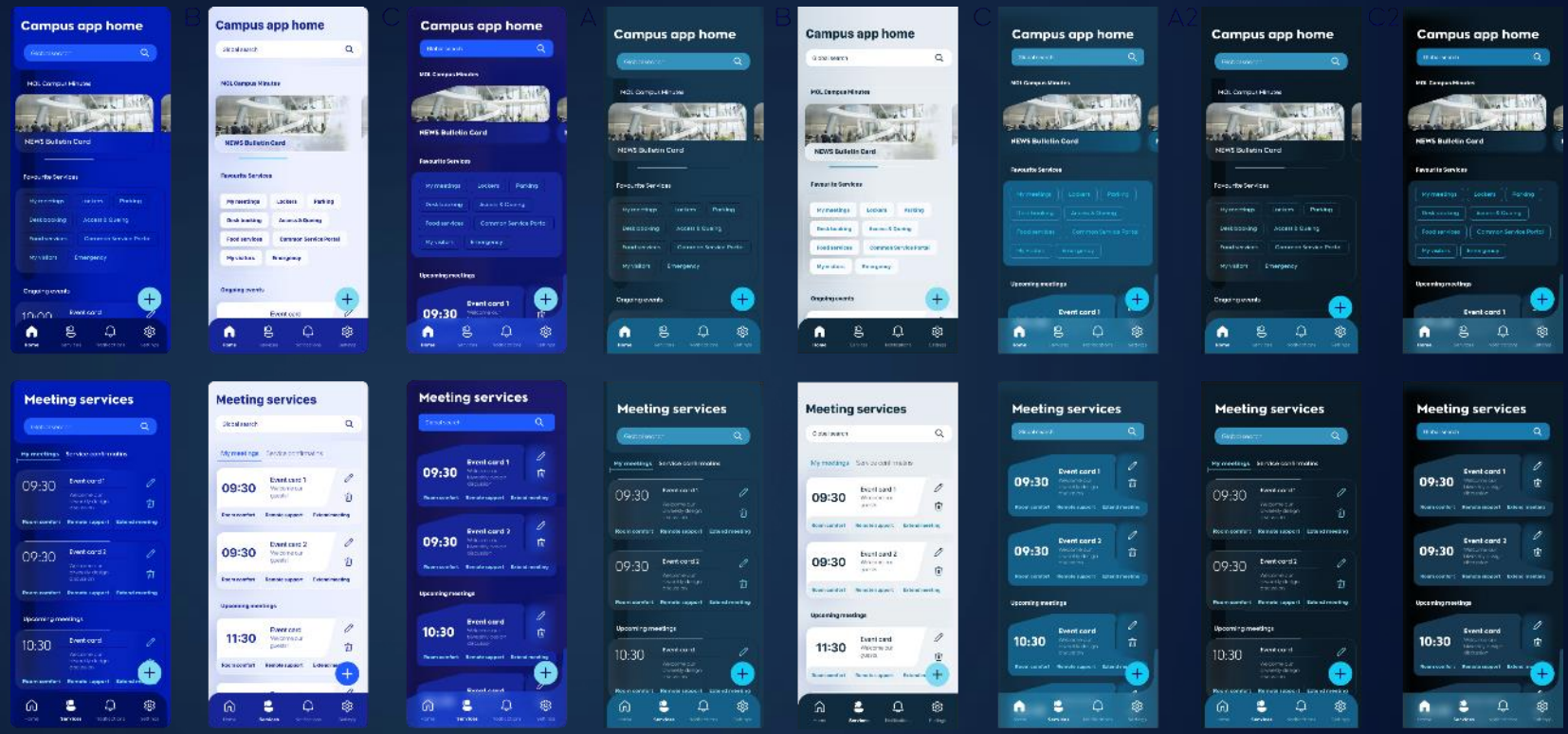
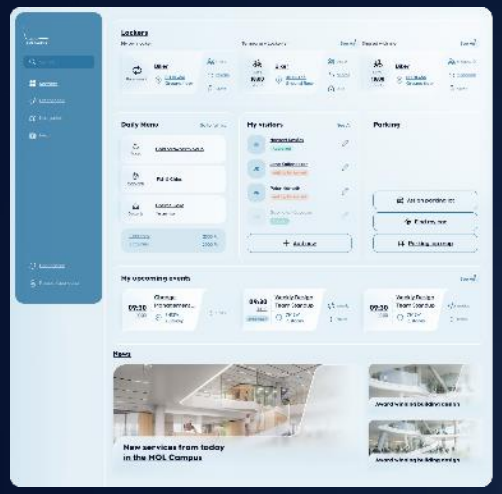
Designing our applications with the highest standards

- Multi touchpoint design systems
- Human Interface Guidelines
- Fluent Design System
- Experience & design principles
- Design sprints
- Prototyping
- Usability tests



8. IMPLEMENT ON ALL TOUCHPOINTS



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QUESTIONS?