

New NATO Headquarters

Brussels 2011

New NATO Headquarters Project Office (HQPO)

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WELCOME

to the New NATO Headquarters in Brussels



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The New NATO HQ will be a secure, collaborative, network-enabled capability, supporting NATO business for you and for future generations.

CONSTRUCTION

at the New NATO Headquarters in Brussels



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The New NATO HQ will be a secure, collaborative, network-enabled capability, supporting NATO business for you and for future generations.

KEY WORDS

for the New NATO Headquarters

CONTEMPORARITY
RELIABILITY
UNIFORMITY
ORIGINALITY
EFFICIENCY
SECURITY
COMMUNICATIONS
FLEXIBILITY
DIPLOMACY
COOPERATION
ADVANCED TECHNOLOGY
FUNCTIONALITY
EXPANSION CAPABILITY
SUSTAINABILITY
COST EFFECTIVENESS
TRANSPARENCY



WHERE IS IT in Brussels?

A12 Motorway to/from Antwerp

E19 Motorway to/from Antwerp



Brussels
International Airport
Zaventem

E40 Motorway to / from Liege



North Station

Central Station

South Station

click +



E40 Motorway to / from
Ghent / Ostend



E411 Motorway to / from Namur

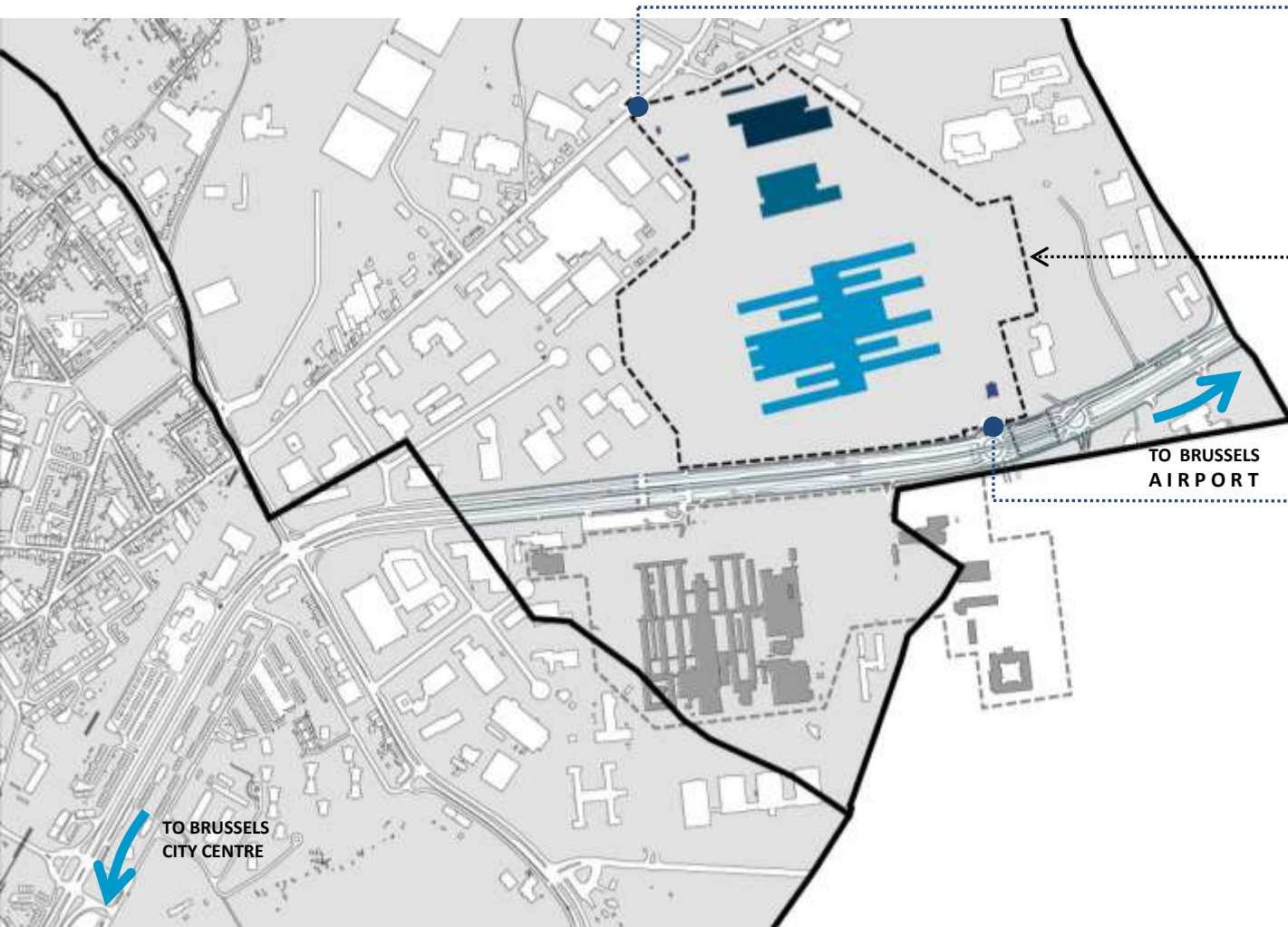
E19 Motorway to/from Paris/Mons



WHERE IS IT in Belgium?

HOW DO I GET THERE

by car / motorcycle / bike ?



Chaussée de Haecht
North Access



New NATO HQ
Campus

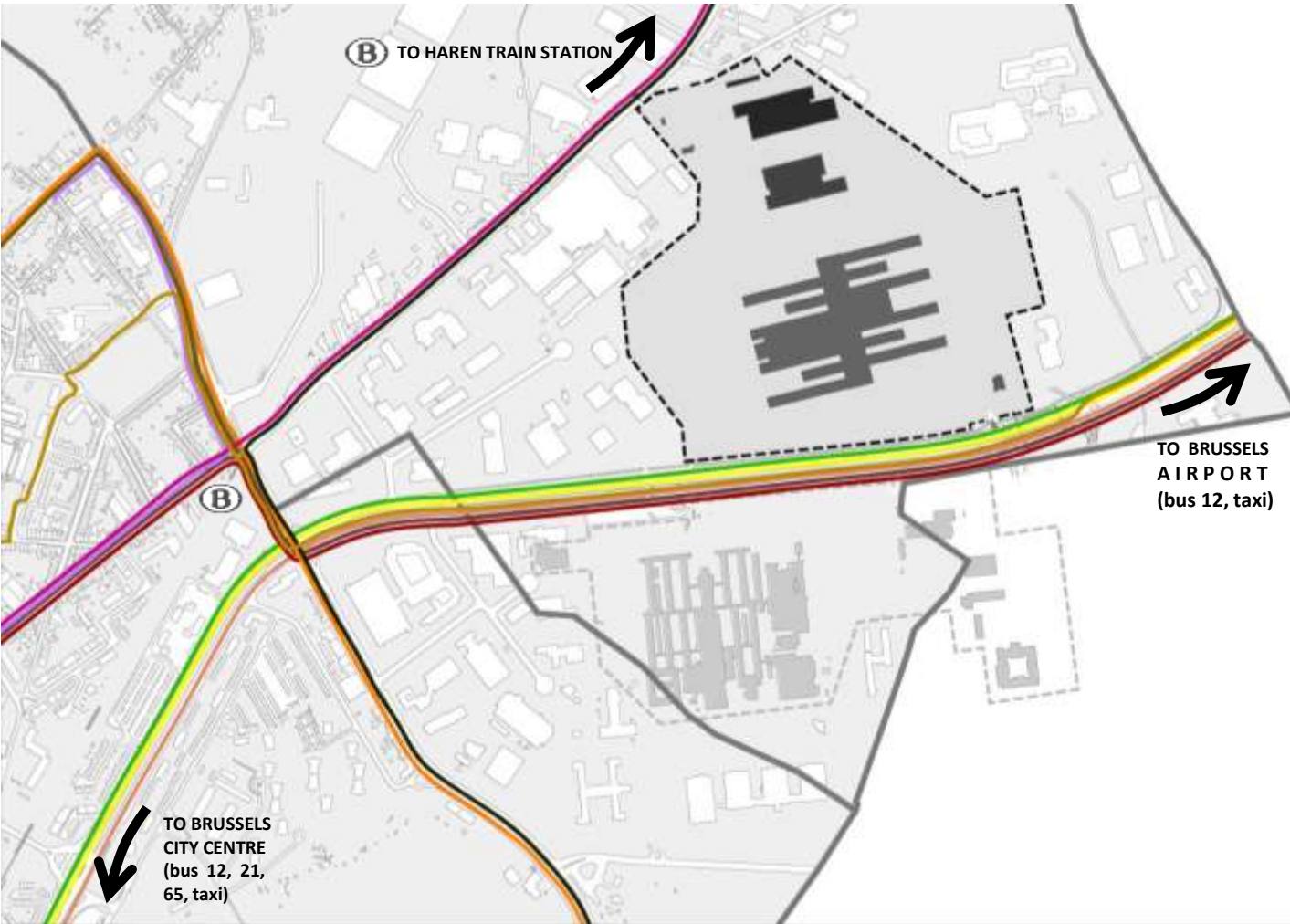
Boulevard Léopold III
South Access

**TO BRUSSELS
AIRPORT**


**TO BRUSSELS
CITY CENTRE**

HOW DO I GET THERE

by public transport?



STIB - MIVB

- 12 Luxembourg – Brussels Airport
- 21 Schuman - NATO
- 65 Gare Centrale - Bourget
- 69 Scharbeek Gare – Jules Bordet
- 80 Porte de Namur - Maes
- 45 Roodebeek – Saint-Vincent
- 59 Etterbeek Ixelles – Bordet Gare
-  55 Rogier – Bordet Gare (to be extended to NATO)



DE LIJN

- 272 Gare du Nord – Haacht-Bonheiden
- 471 Gare du Nord – Brussels Airport
- 270 Gare du Nord - Keerbergen



+ NATO SHUTTLE

Joséphine Charlotte – NATO HQ



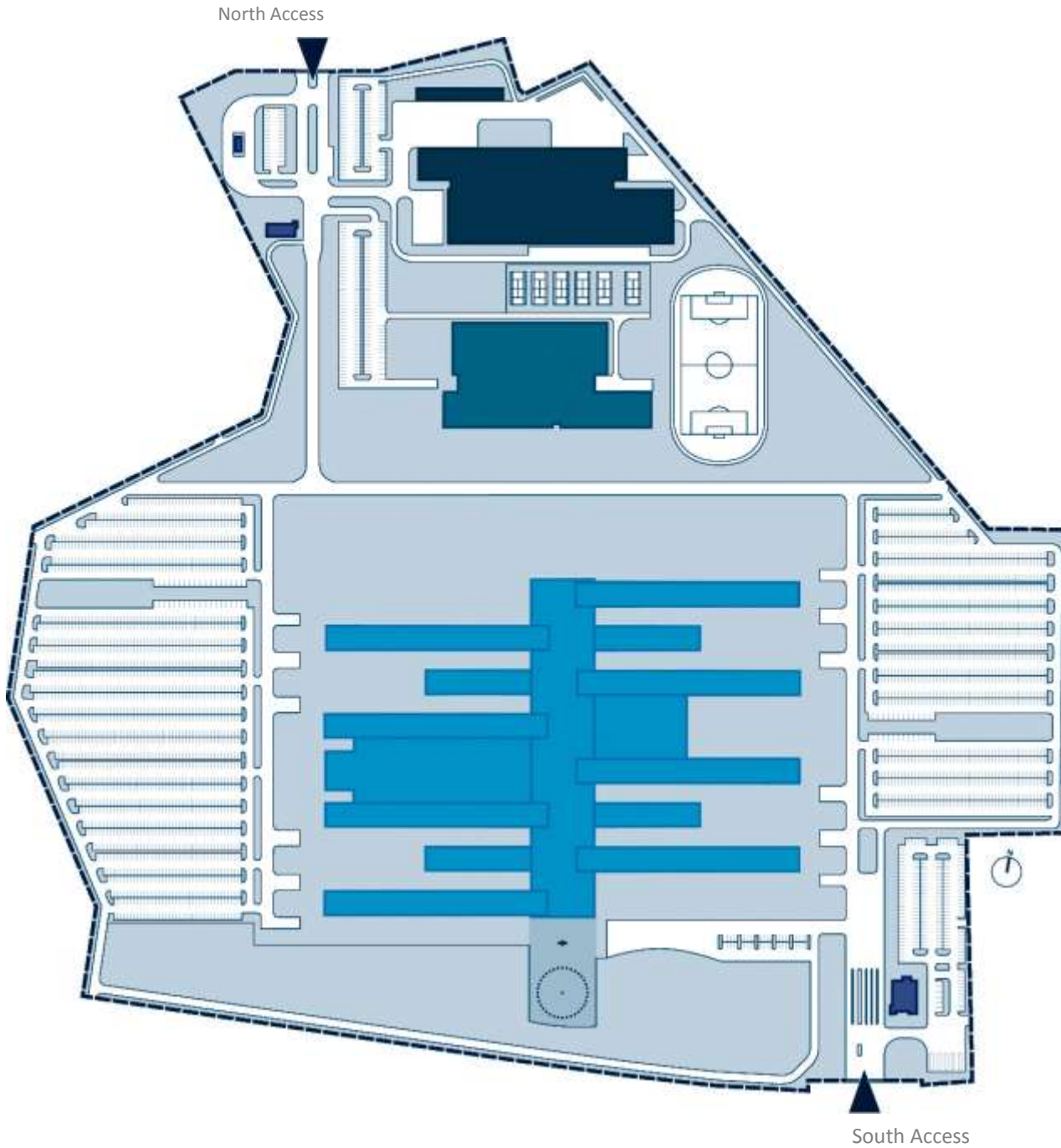
Bordet Gare – Bordet Train Station

Haren Station – Haren Train Station

HOW DO I GET THERE?

Boulevard Leopold III Re-development



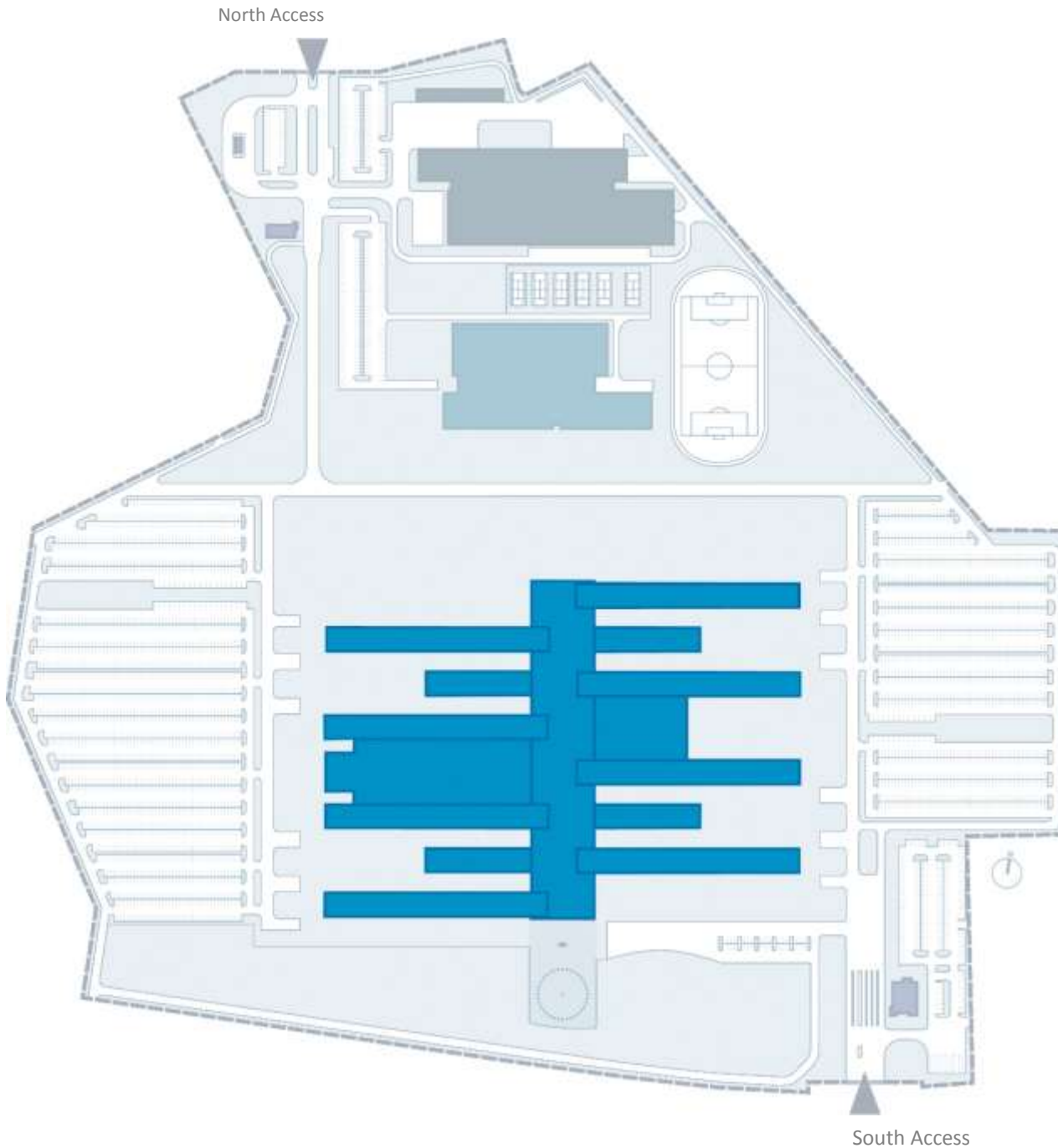


NEW NATO HQ CAMPUS



A state-of-the-art building made up of a transparent Office Infrastructure, a high-tech Conference Centre, a Common Infrastructure and a central 32 metre high Agora

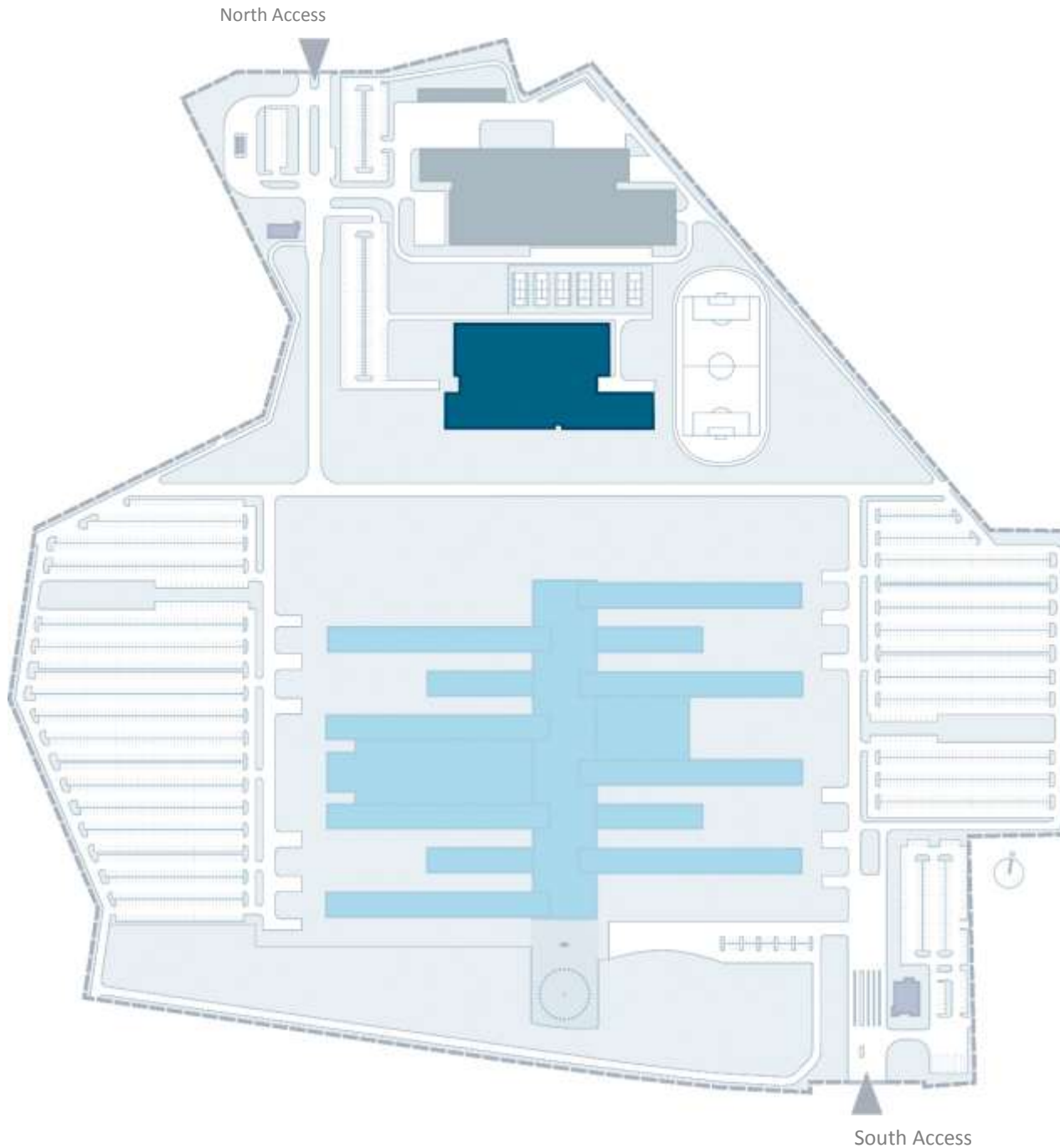
MAIN HQ BUILDING

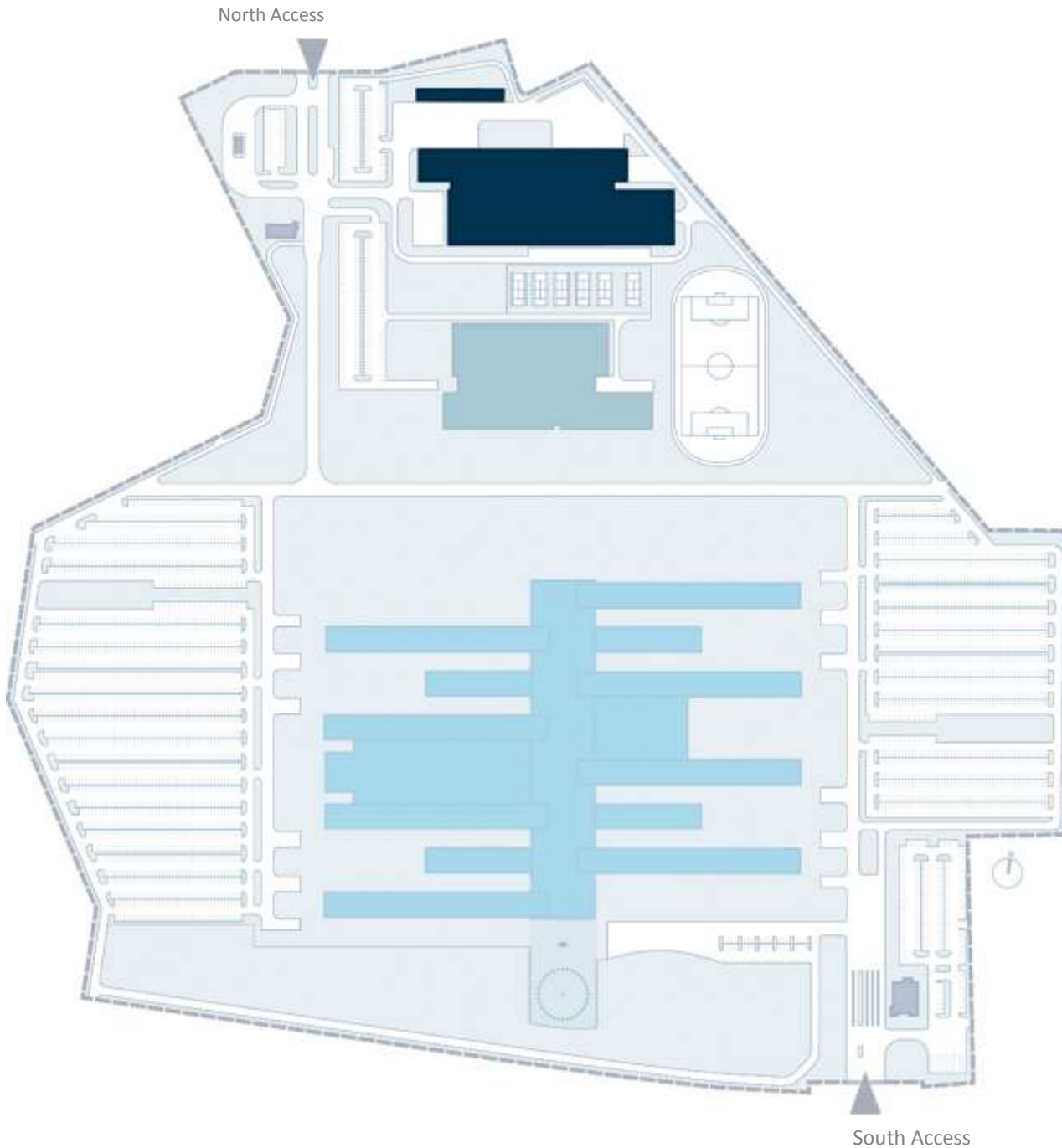




Outdoor and indoor sports facilities, a variety of shops, restaurant / bar / café, children's activities for NATO personnel, their families and approved visitors

STAFF CENTRE





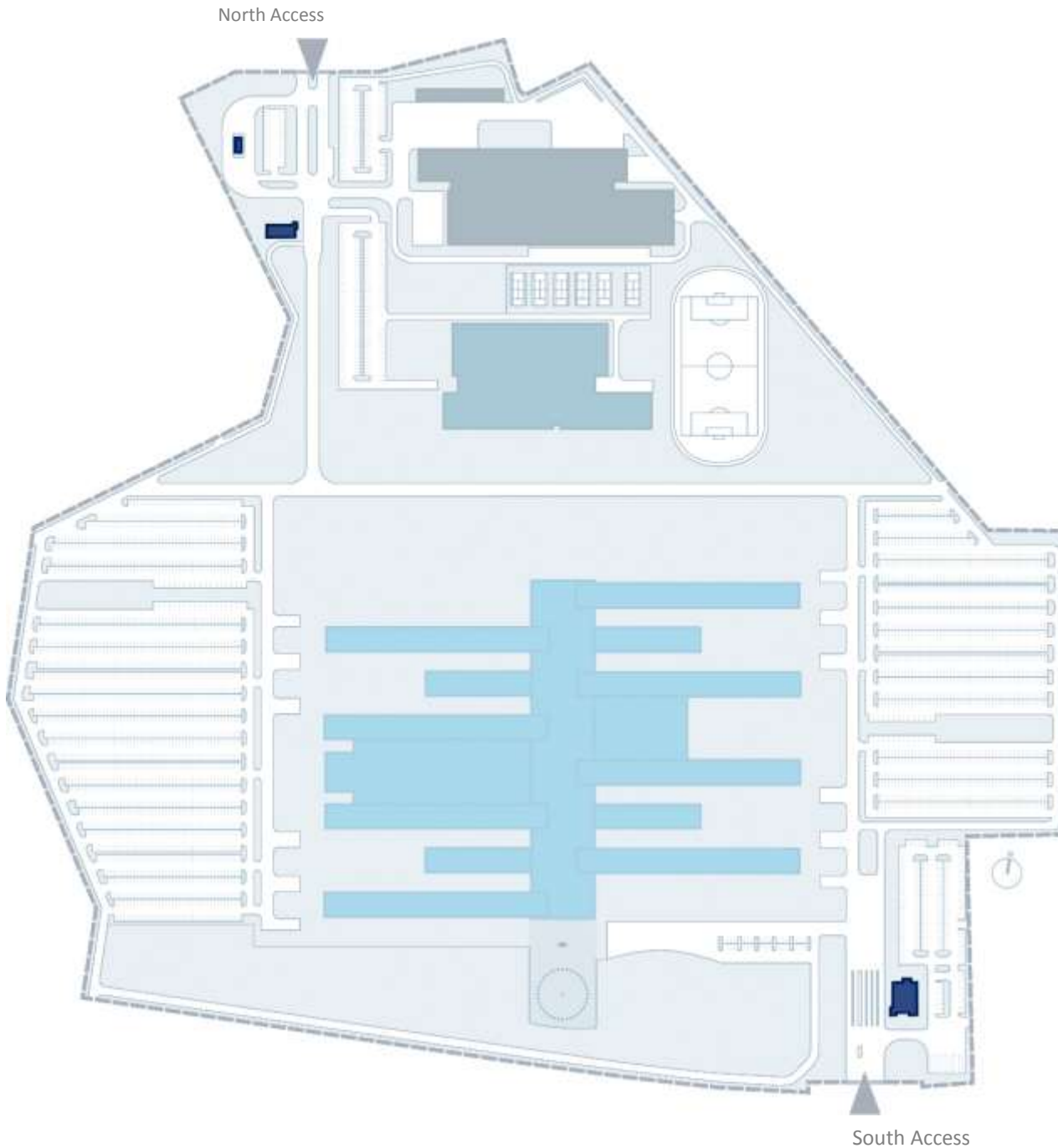
Logistics centre with loading docks for goods, warehouses, plant rooms, technical control and document destruction facilities

INDUSTRIAL INFRASTRUCTURE



Located at each of the two entrances, the guard houses provide the services needed to ensure the compound security

GUARD HOUSES



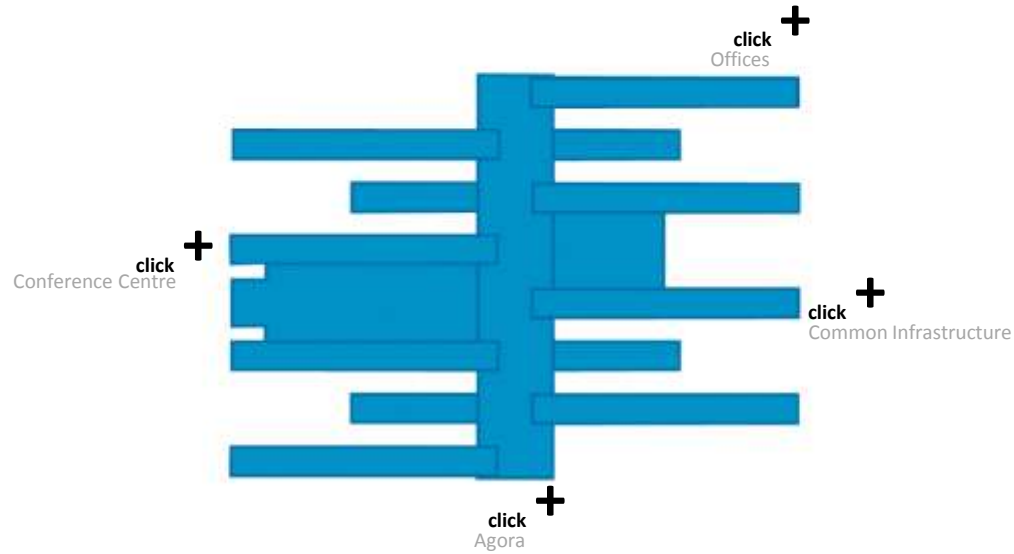
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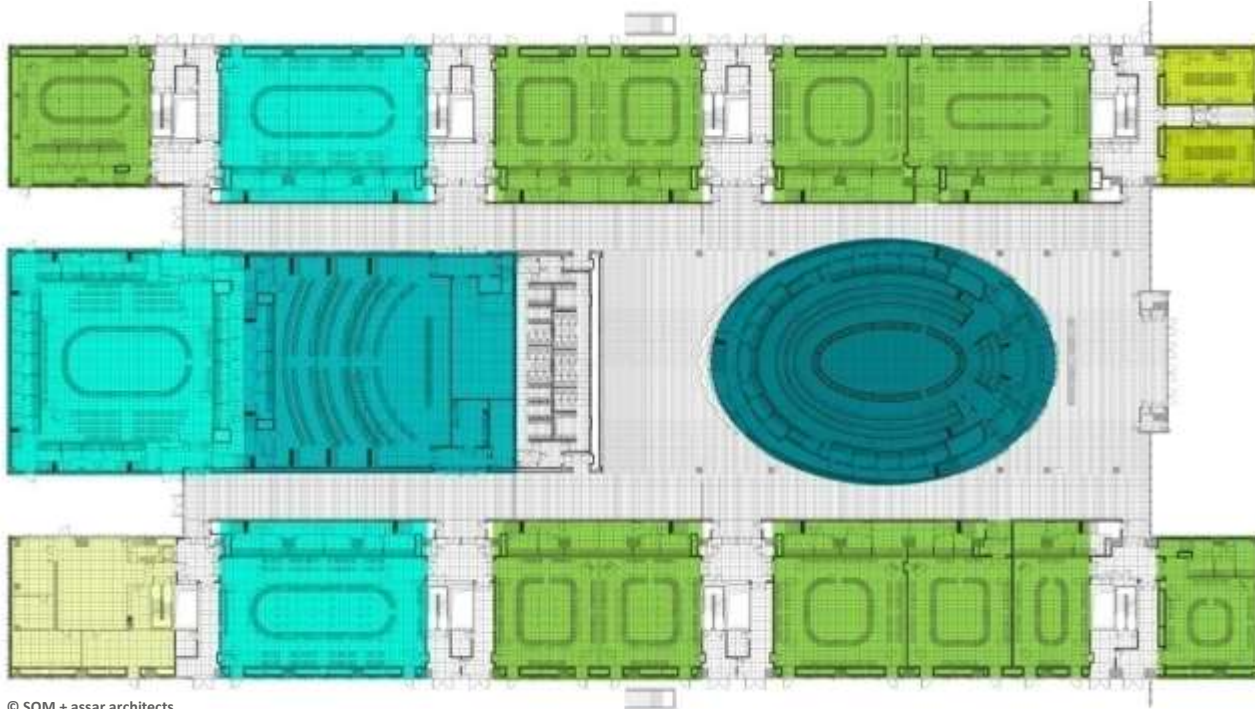


MAIN HQ BUILDING

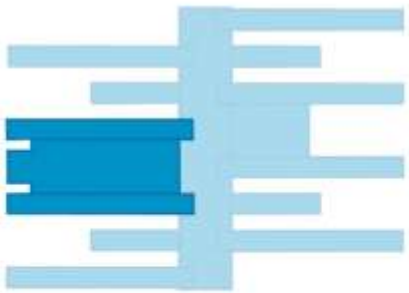




Located at the ground level of the Main HQ, within the western office area and immediately adjacent to the Agora, the Conference Centre forms a clear assembly area within the HQ



© SOM + assar architects



MAIN HQ BUILDING

Conference Centre

North Atlantic Council (NAC) Room

NATO – EU Plenary Room

3 EAPC Rooms

11 Committee Rooms

2 Conference Rooms

Technical Control Room

Reception Desk





Located at the ground level of the Main HQ, within the western office area and immediately adjacent to the Agora, the Conference Centre forms a clear assembly area within the HQ

MAIN HQ BUILDING

Conference Centre

North Atlantic Council (NAC) Room

> Up to 280 seats

- > Up to 50 Delegates around the table
- > 230 Support Staff behind the table



Located at the ground level of the Main HQ, within the western office area and immediately adjacent to the Agora, the Conference Centre forms a clear assembly area within the HQ



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MAIN HQ BUILDING

Conference Centre

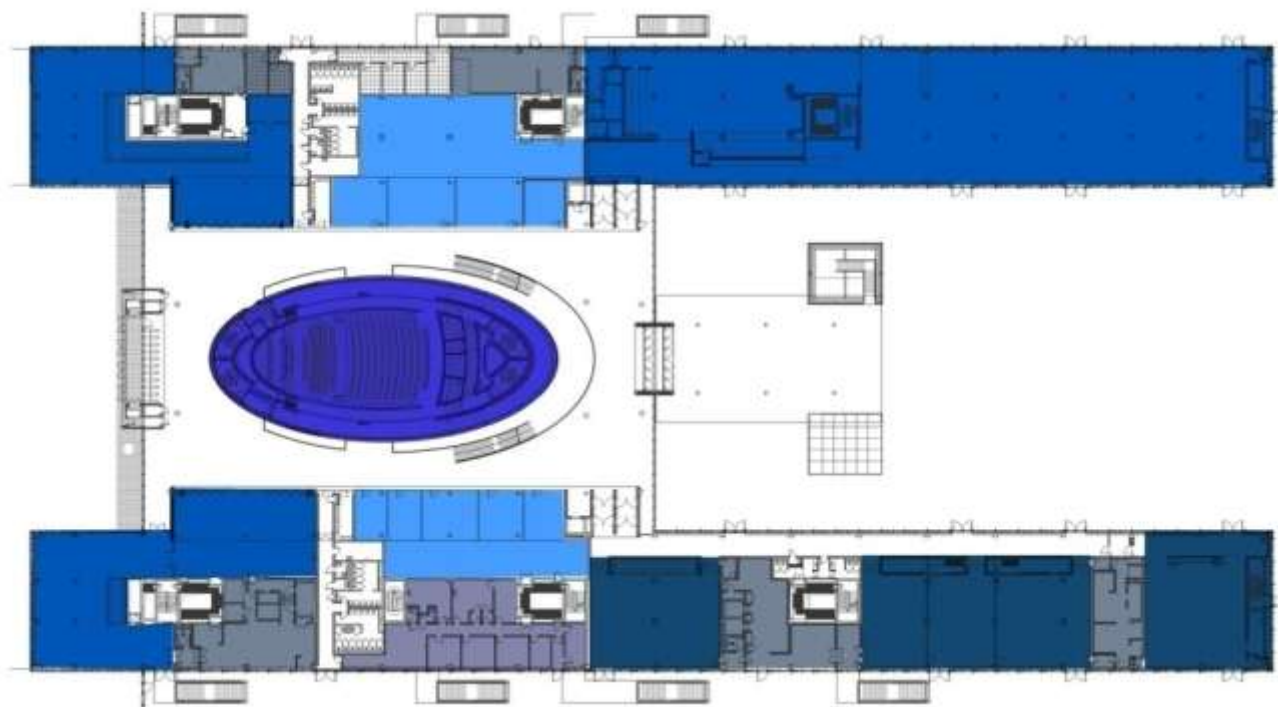
NATO – EU Plenary Room

> 303 seats

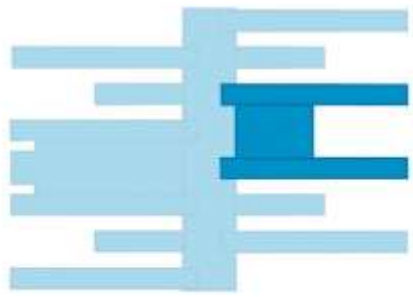




Located on two levels, within the eastern office area, the Common Infrastructure is highly accessible from the HQ, offering the visitors a controlled view into the Agora



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MAIN HQ BUILDING

Common Infrastructure

Ground floor

Press Theatre

Café-bar / Sandwich Deli / Food Court

Themed Restaurant

Gourmet Restaurant

VIP Banquet Hall

Private Dining Room

Shops

Medical Facilities

First floor

Library

Press Meeting Rooms

Located on two levels, within the eastern office area, the Common Infrastructure is highly accessible from the HQ, offering the visitors a controlled view into the Agora



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MAIN HQ BUILDING

Common Infrastructure

Ground floor

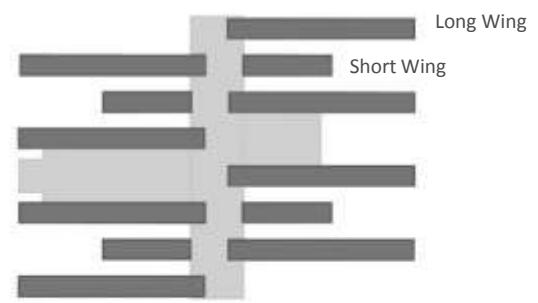
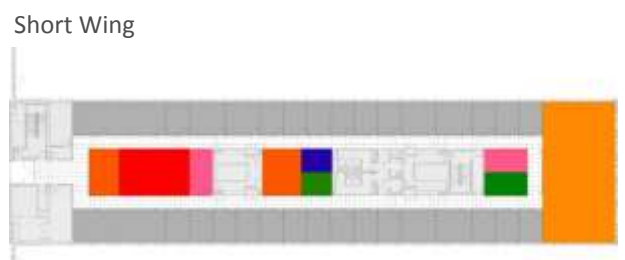
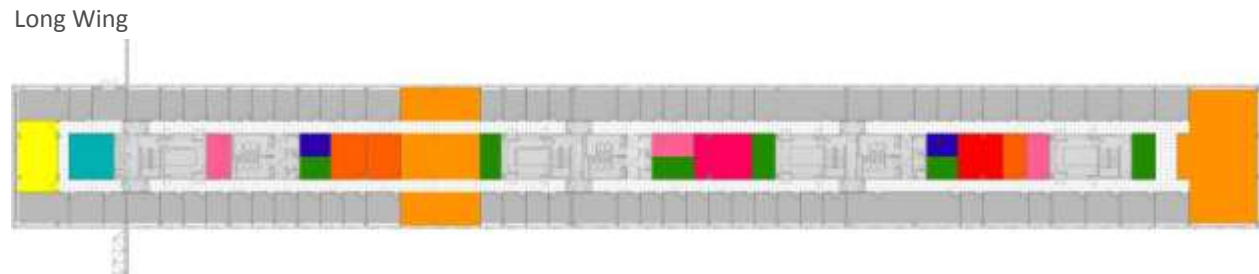
Press Theatre

> 300 seats





A transparent office infrastructure made up of 8 long wings (7 floors high) and 4 short wings (4 floors high), accessible via the Agora and connected via footbridges



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MAIN HQ BUILDING

Offices _Long wing & Short wing

- Office rooms
- VTC / Virtual Meeting Room
- Collaborative Area
- Virtual Meeting Room
- Multifunctional Areas
- Printing / Copy Room
- Kitchenette
- Open space
- Storage



Team Collaborative Space



Team Collaborative Space



Multifunctional Workplace Areas





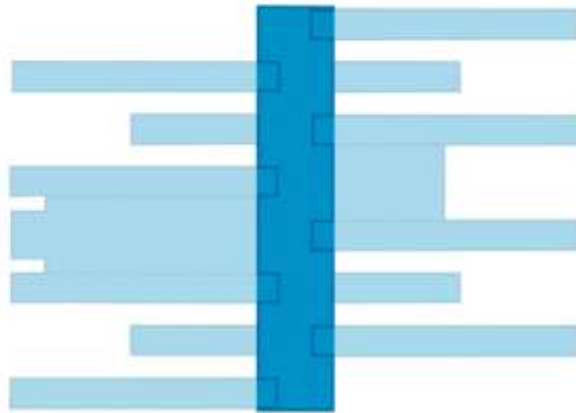
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A transparent office infrastructure made up of 8 long wings (7 floors high) and 4 short wings (4 floors high), accessible via the Agora and connected via footbridges

MAIN HQ BUILDING

Agora



VIP Entrance

Staff Main Entrance

Public and Press Entrance

Conference Centre Access

Common Infrastructure Access

Access to Offices



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A 32 metre high central space that highlights the visual connections between the different wings of the building and distributes the accesses at the ground floor level

MAIN HQ BUILDING

Agora

VIP Entrance

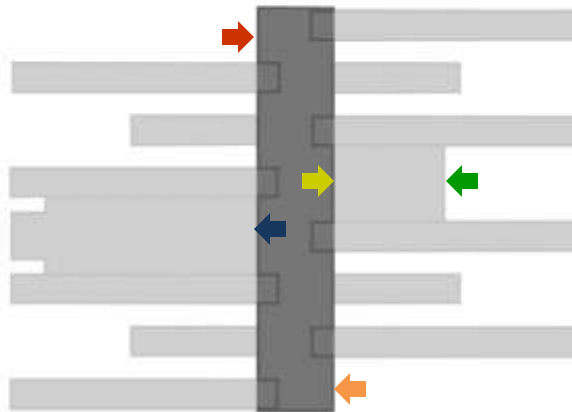
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MAIN HQ BUILDING

Agora

VIP Entrance

Staff Main Entrance

Public and Press Entrance

Conference Centre Access

Common Infrastructure Access

Access to Offices





Outdoor and indoor sports facilities, a variety of shops, restaurant / bar / café, children's activities for NATO personnel, their families and approved visitors

STAFF CENTRE

Facilities

Indoors

Brasserie Restaurant & Bar

Staff Centre Banquet Room

Cafeteria + 4-lane Bowling Alley

4 Indoor Tennis Courts + 4 Squash / Racquetball Courts

Basketball / Volleyball / Handball / Badminton Court

Fitness Room + Martial Arts Room + Swimming Pool

Children's Holiday Camp, Multipurpose Hall + Book Club

Shops (Perfumery , Jewelry, Sports articles)

Outdoors

6 Tennis Courts

Athletics track + Soccer field + Golf Putting Green

Children's playground + Petanque Court



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Outdoor and indoor sports facilities, a variety of shops, restaurant / bar / café, children's activities for NATO personnel, their families and approved visitors

STAFF CENTRE

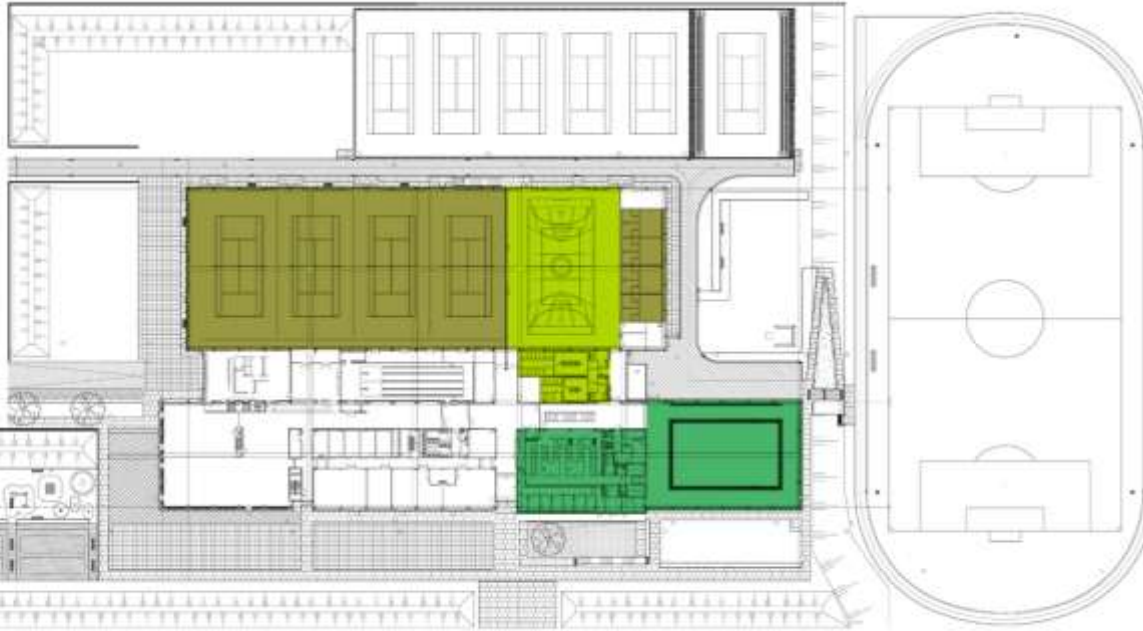
Facilities

Indoors

4 Indoor Tennis Courts + 4 Squash / Racquetball Courts

Basketball / Volleyball / Handball / Badminton Court

Fitness Room + Martial Arts Room + Swimming Pool

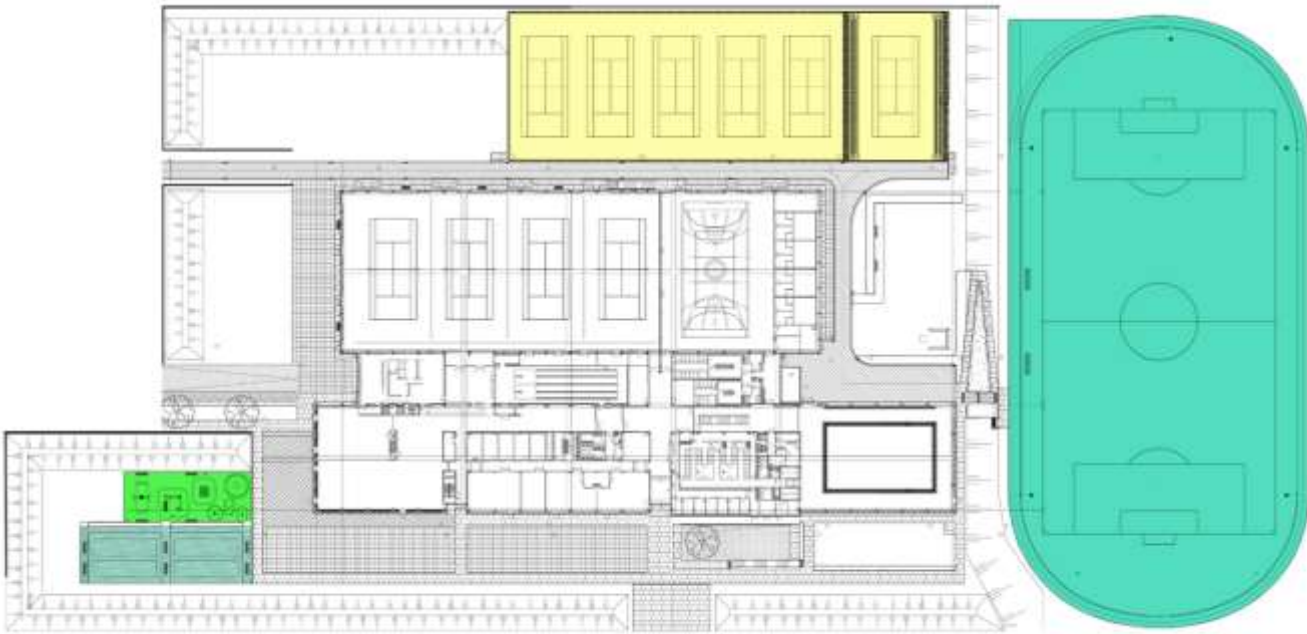


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Outdoor and indoor sports facilities, a variety of shops, restaurant / bar / café, children's activities for NATO personnel, their families and approved visitors



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STAFF CENTRE

Facilities

Indoors

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- Staff Centre Banquet Room
- Cafeteria + 4-alley Bowling track
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- 6 Tennis Courts
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Building	Year of completion	Number of floors	Height m	Number of Staff	Surface m ²
NEW NATO HQ Brussels, Belgium	2015	8	33	4700	250 000

- > 28 NATO Nations Delegations (Embassies)
- > 22 Partner Nations Missions

- > 2500 NATO Nations Delegates
- > 1800 NATO International Staff and Agencies
- > 400 Partner Nations Delegates

- > 500 Visitors per day on average (Peak values > 1000 visitors/day)

FACTS AND FIGURES

New NATO HQ

NEW NATO HQ – Future landmark building



Building	Year of completion	Number of floors	Height m	Number of Staff	Surface m ²
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NEW NATO HQ Brussels, Belgium	2015	8	33	4700	250 000
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EUROPEAN COMMISSION Berlaymont Building Brussels, Belgium	1969 (1996 renovation)	16	40	3000	240 500
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FACTS AND FIGURES



New NATO HQ

NEW NATO HQ – Future landmark building



New EUROPOL Building The Hague, The Netherlands	2011	10	40	850	32 500
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UNITED NATIONS HQ New York, USA	1952	39	155	12 200	241 500
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Design Features

Renewable construction materials (certified wood, recycled construction materials on site)



High thermal insulation of the building

Extensive use of natural light throughout the building



Solar protection of the glazed facades

Natural ventilation provided for office spaces (through the use of operable windows)

Green roofs – Short office wings of Main HQ



Technical Solutions

Co-generation (simultaneous generation of electricity and heat in winter)



Geothermal energy



Slab cooling system (high thermal inertia of the building)

Solar panels (for the heating of water)



Reuse of rain water

System to control and adjust the use of electricity (for an overall higher energy efficiency)



Efficient maintenance processes

Green IT

FACTS AND FIGURES

New NATO HQ

Sustainability

> The New NATO HQ will incorporate mature sustainable technologies into its overall design and into its everyday operation and running.

What does it

really mean?



+293 more seats
Conference Centre
Old HQ = 1958 seats
New HQ = 2251 seats



+144 more seats
Food Court
Old HQ = 466 seats
New HQ = 610 seats



+92 more seats
Café - bar
Old HQ = 328 seats
New HQ = 420 seats



+664 more parking places
Parking
Old HQ = 2647 parking places
New HQ = 3311 parking places



FACTS AND FIGURES

New NATO HQ

NEW NATO HQ vs Old NATO HQ

What does it

really mean?



Grand Place / Brussels

Main building
contour

Common Infrastructure
size = Grand Place size

FACTS AND FIGURES

New NATO HQ

Common Infrastructure Size

> Juxtaposition of the Common Infrastructure Contour, in plan, to the Grand Place in Brussels, Belgium.



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That is the equivalent of **10 x**

Football pitches



FACTS AND FIGURES

New NATO HQ

Total glass surface used in the New NATO HQ

> Total glass used in the facades of the New NATO HQ amounts to 72 000 sqm of surface.

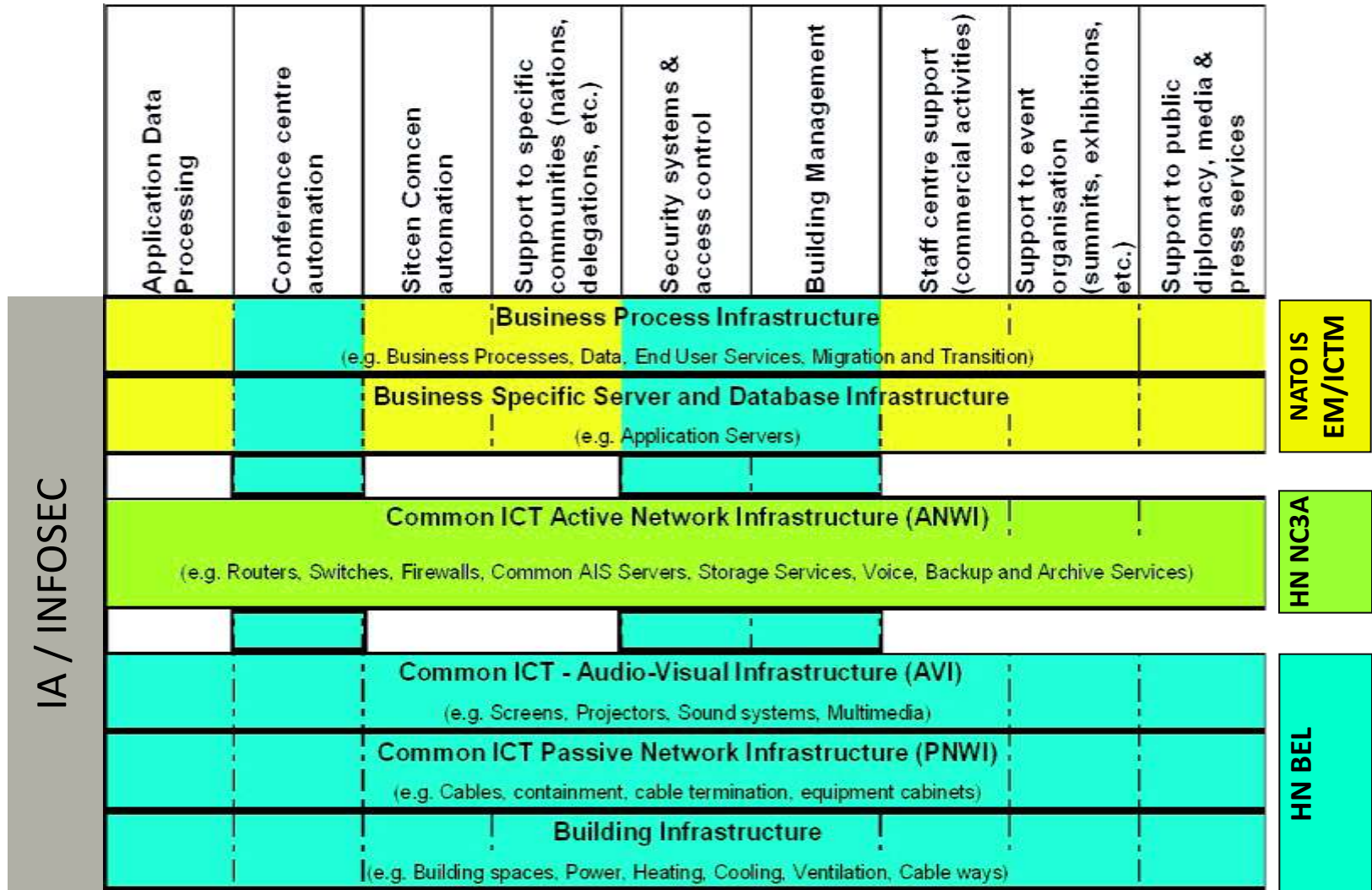
Just how much

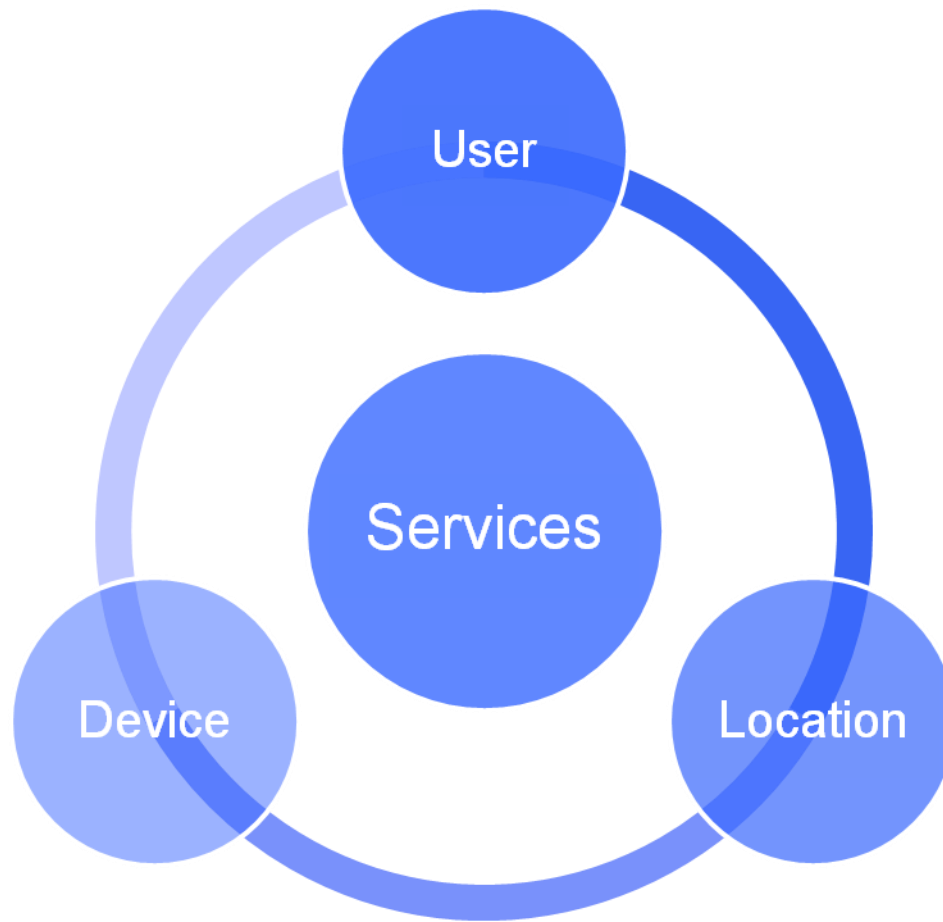
glass is that?



ICT Architecture

for the New NATO Headquarters



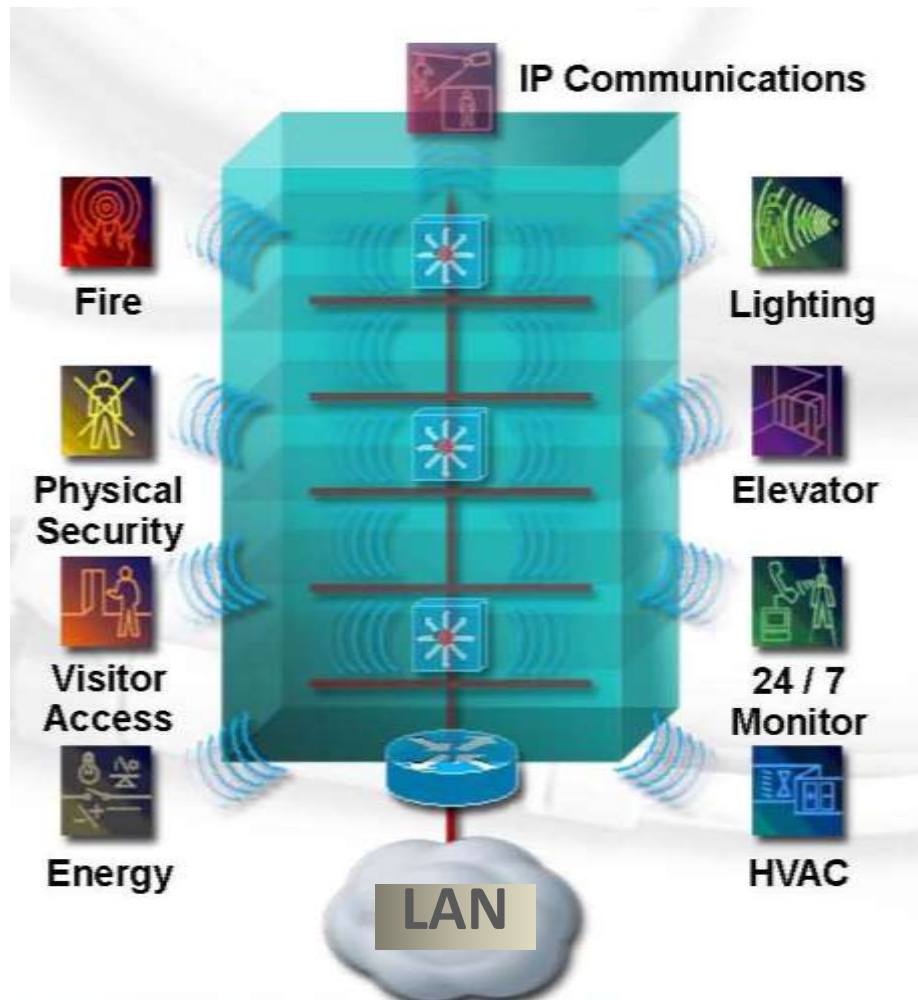


- Flexibility**
- Expansion capability**
- Sustainability**
- Cost effectiveness**
- Security**
- Functionality**

NEW NATO HQ CAMPUS

ICT

Service Oriented Approach



NEW NATO HQ CAMPUS

ICT

Building Management Services (BMS)

- > Integrated building control
- > Monitoring
- > Reporting



NEW NATO HQ CAMPUS

ICT

Electronic Security Services (ESS)

- > Access control
- > Video surveillance (CCTV)
- > Intrusion Detection
- > Public address
- > Goods and people screening





NEW NATO HQ CAMPUS

ICT

Audio-Visual Infrastructure (AVI)

- > Congress Services
- > Interpretation Services
- > IP TV Distribution
- > Broadcast TV and Radio
- > Interactive walls, Display Screens





NEW NATO HQ CAMPUS

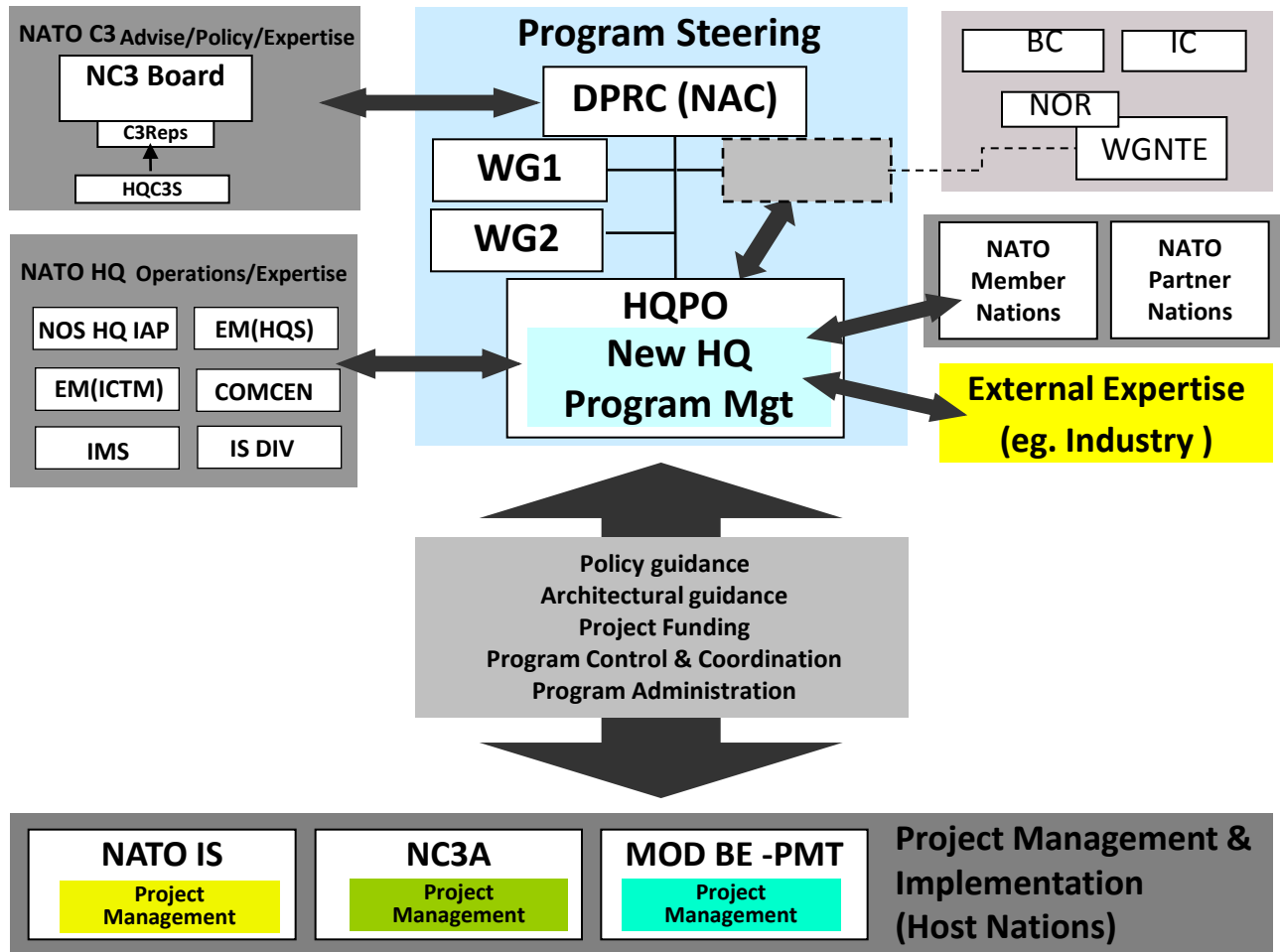
ICT

Active Network Infrastructure

- > Data Centre
 - > Processing Power
 - > Storage
 - > Application Support
- > Communications
 - > Unified Communications and Collaboration
 - > Video Tele Conferencing
 - > Commercial and Defence Services
- > End User Equipment
 - > Workstations
 - > Printers
 - > Mobile Devices

Governance

for the New NATO Headquarters



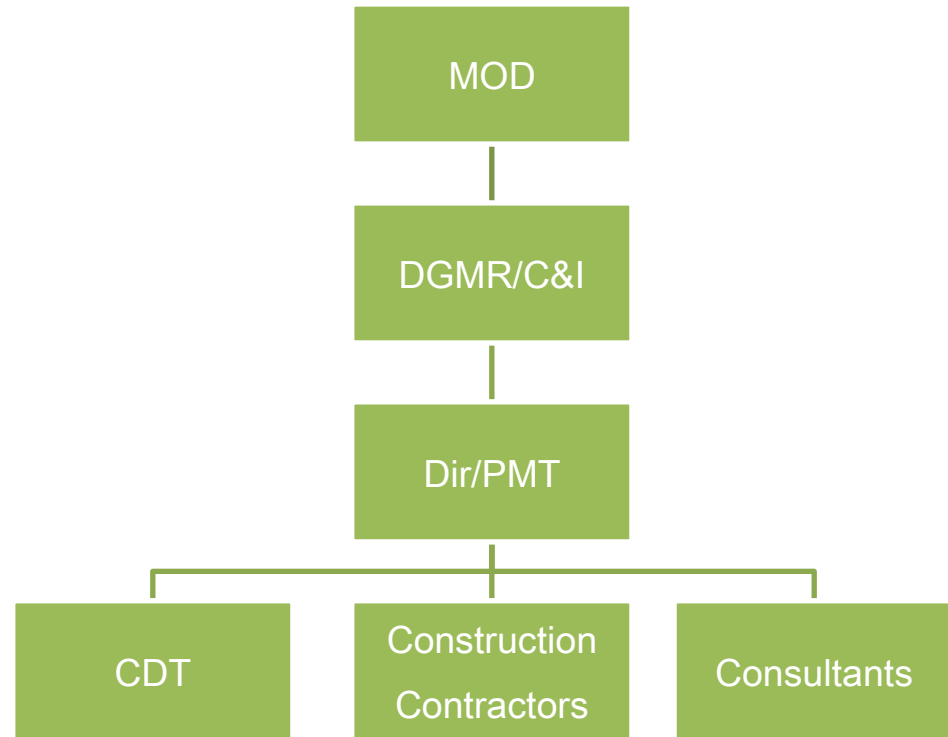
Governance: NATO and Belgian Teams

for the New NATO Headquarters

NATO



Belgium



Planning

for the New NATO Headquarters

| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |

Construction
PNWI + BMS
(HN BEL)



ESS
(HN BEL)



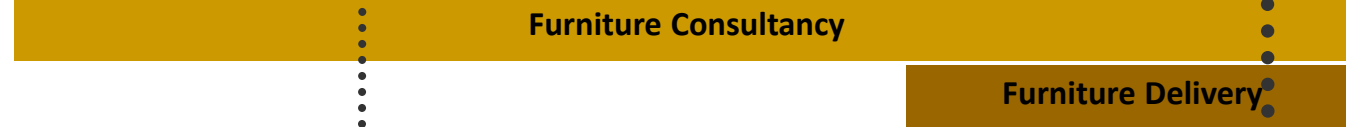
Audio-Visual
(HN BEL)



ANWI
(HN NC3A)



Furniture
(HQPO)



Business
Application
Migrations
(EM / ICTM)



Transition
Management
(EM)



NOW

Move
Hand-Over
HN BEL

Financial Planning

for the New NATO Headquarters

Long Term Programme Budget (LTPB)



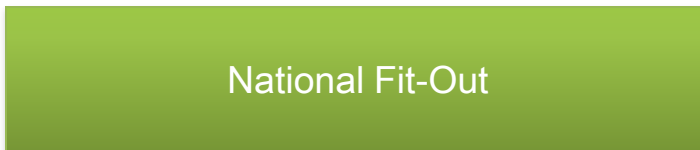
Common Spaces
IS/IMS
Common Capabilities (AVI, ESS, ANWI)

DPRC



National Spaces

Nations



Specific Architectural Requirements
Specific ESS
Specific PNWI
Specific ANWI

Business Opportunities

for the New NATO Headquarters

	Project	Host Nation	Cost Estimate	Competition Time
1	Building Construction	BEL	650 M€ (450 M€)	2009
	Passive Network Infrastructure			
	Building Management System			
2	Audio-Visual	BEL	26 M€	2011
3	Electronic Security System	BEL	19 M€	2011
4	Active Network Infrastructure	NC3A	89 M€	2012
5	Application/Data Migration	NATO HQ	4 M€	2012-2013
6	Programme Management Support	NC3A	4 M€	2008
7	Furniture Consultancy + Delivery	NATO HQ	20 M €	2012



QUESTIONS ?

New NATO HQ

More information and contact details INFORMATION

- > **NATO Website:**
www.nato.int – select “NATO A to Z” / “Headquarters – New Headquarters”
- > **Belgian MOD Website:**
www.mil.be – select “QG OTAN” or “NATO HQ (EN)”
- > **NC3A Website:**
www.nc3a.nato.int
- > **SOM architects Website:**
www.som.com
- > **Assar architects Website:**
www.assar.com

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