

LIFE SCIENCE & BIOENGINEERING

Life Science & Bioengineering Buildings 201-205

Area	Budget	Construction period
50,000 m ²	DKK 1.4 billion	2014-2018

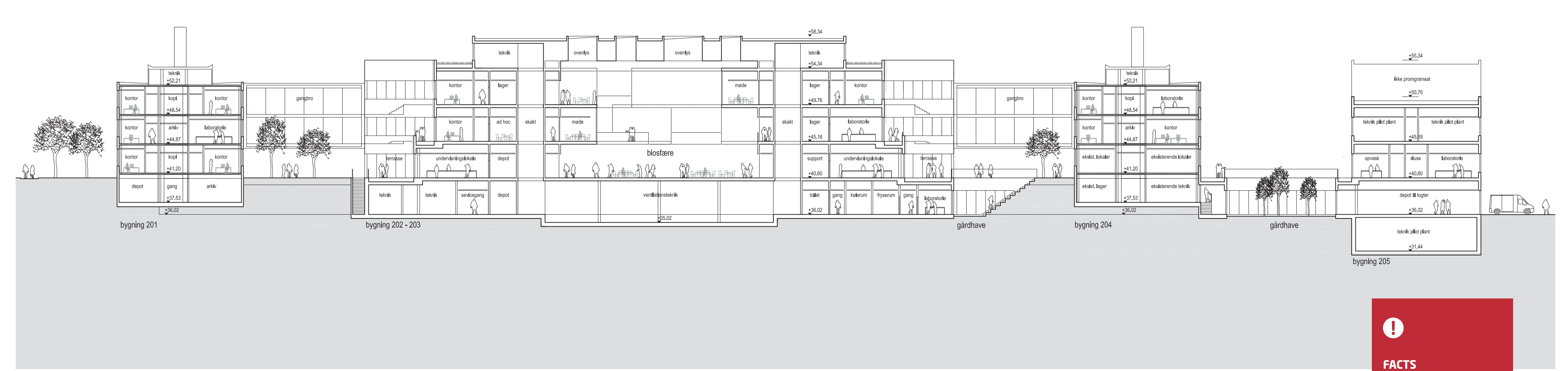
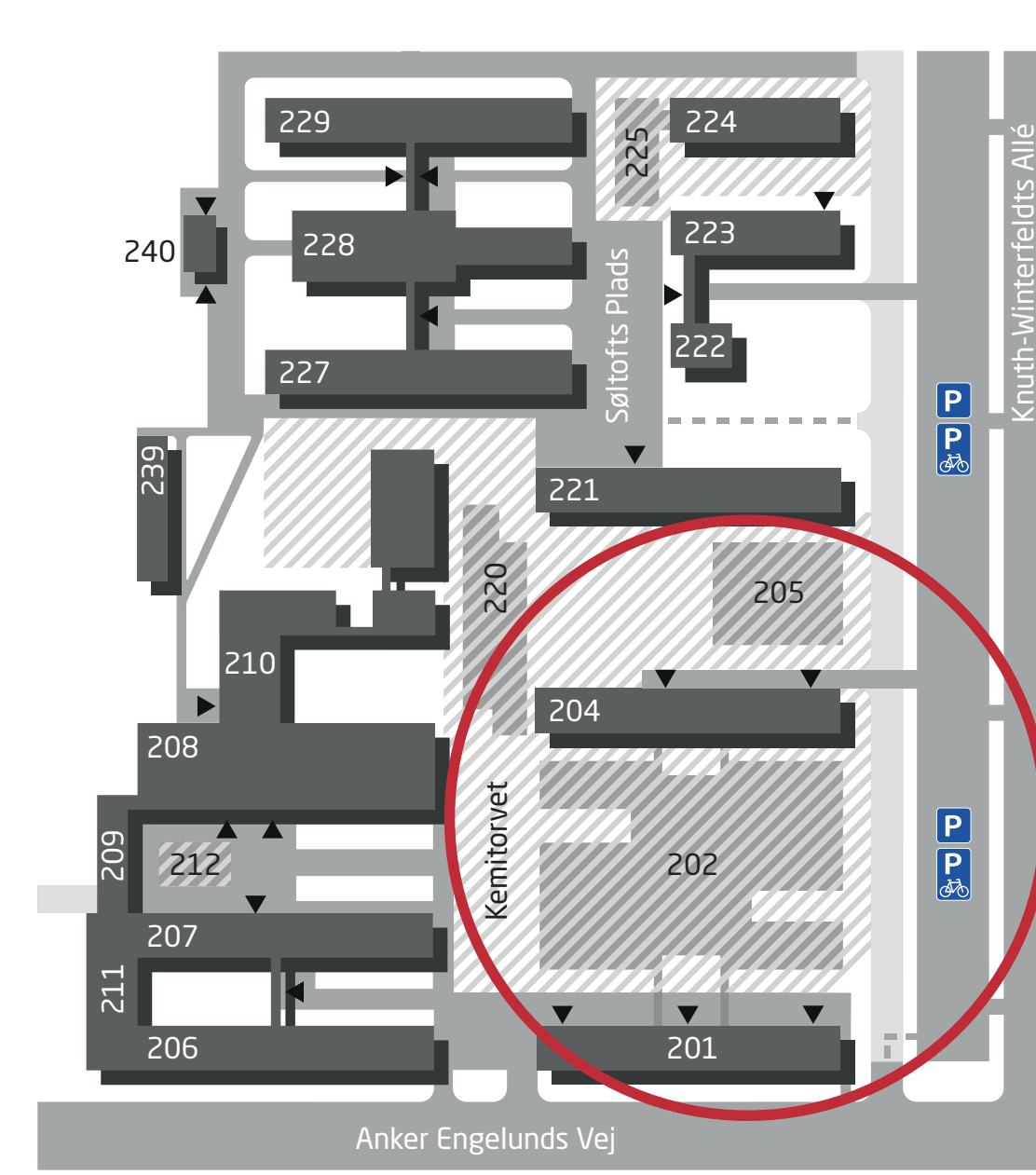
The new Life Science & Bioengineering complex – Buildings 201–205 – will bring together DTU's activities in the aquatic, veterinary and foodstuffs fields on DTU Lyngby Campus, benefiting both the University and the rest of the world.

The new Life Science & Bioengineering complex is a five-storey building that comprises more than 50,000 m² of space and will house facilities including modern laboratories for research and teaching. In all, the new complex will be the workplace for around 800 employees from the three departments DTU Aqua, DTU Food and DTU Vet. The research at these three departments

covers a broad range of areas, from sustainable utilization of the sea, through nutrition, food safety and resistance to antimicrobial agents, to monitoring and combating livestock diseases, including vaccine development.

The Life Science & Bioengineering complex will feature construction of a new Building 202 with a total

of 27,500 m² of space. The new building will be linked to two existing buildings (201 and 204) which will simultaneously be undergoing comprehensive renovation. Another new Building 205 is to be constructed north of the complex and will feature a high-class laboratory for veterinary research.



FACTS
Total area: 50,000 m ²
Buildings 202 and 205: 27,500 m ² and 9,000 m ² of new construction
Building 201 and 204 renovation: 7,000 m ² of renovation in each
Total budget: DKK 1.3 billion
Construction period: 2014–2018
Turnkey consultants: COVI
Consultants: Rørdam-Heller Arkitekter Christensen & Co Westberg Schul Landskabsarkitekter NINE Pharmplan
Construction management: Alectia
Trade contractors on Building 202: CO Jensen Jensen MT Høgaard Enemærke og Pedersen Kai Andersen Wicotek Kirkebjerg Kamp & Lauritzen SIF Gruppen Siemens Dansk Vandteknologi
General contractor on Buildings 201 and 204: Jakob Miljøsanering G. Tscherning



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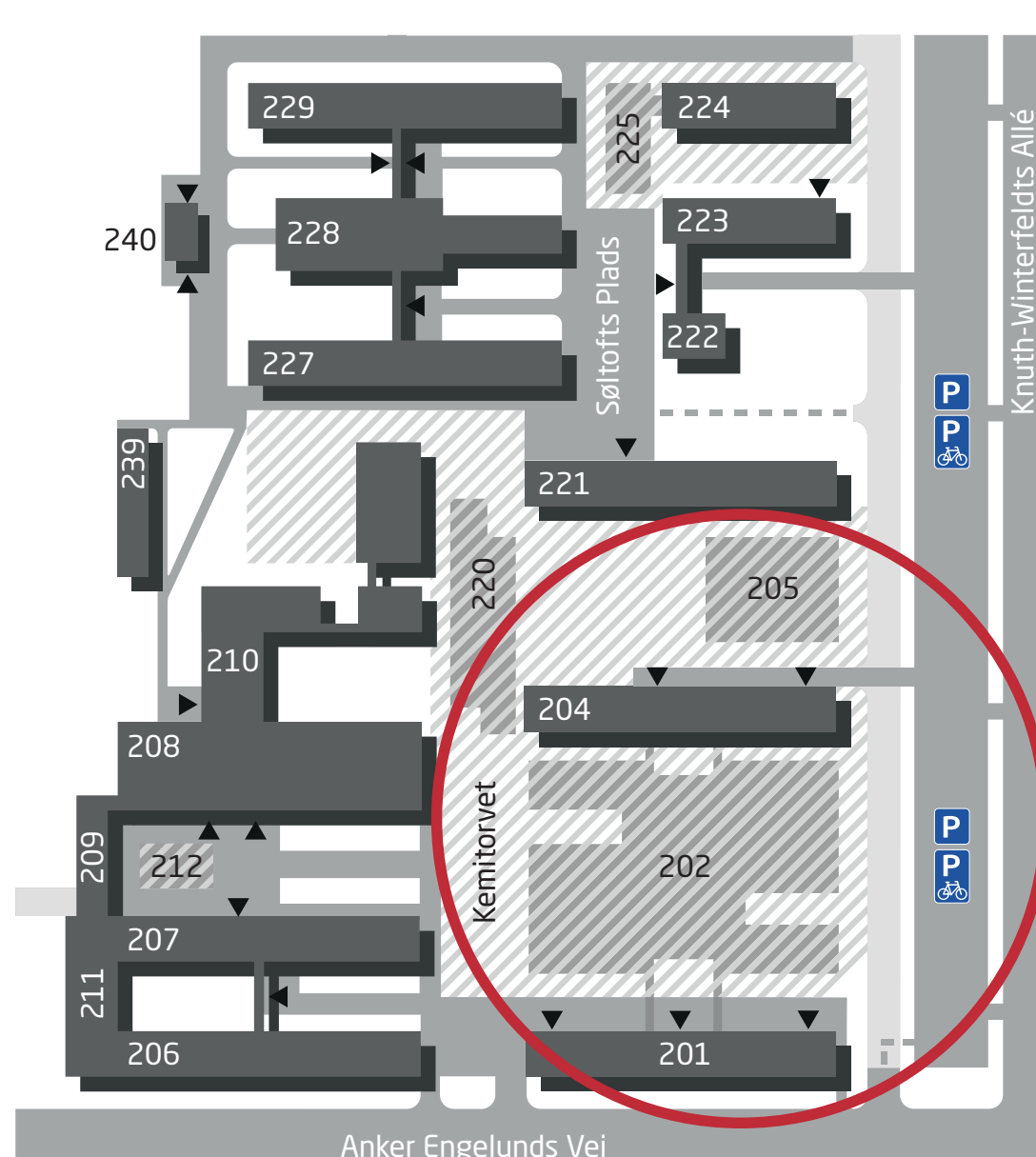
The Biosphere in Building 202 will be a hub for social meetings and academic exchanges between researchers, students, partners, and guests.

Boasting 27,500 m², Building 202 is the largest new facility to be built at DTU since DTU Lyngby Campus was inaugurated in the early 1970s. It is also a building which must perform many roles. As a new home for DTU Aqua, DTU Food and DTU Vet, the building will house both people and animals. At the same time, it must function as a social and academic forum and as a meeting place for the bio-scientific research environment at DTU.

At the heart of the complex is the Biosphere, a three-storey atrium. The Biosphere will become a hub for social interaction in DTU's bio-scientific research environment. Here, there will be meeting facilities, café areas, and a large canteen with a west-facing terrace. The open, bright atrium creates visual contact with researchers and staff on the floors above, and supports

the vision of openness and knowledge sharing between the various academic fields.

Building 202 is linked to the two existing Buildings 201 and 204, which each measure 7,000 m², via walkways on two floors. The two buildings are being totally renovated and fitted out with offices.



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The laboratories in the building are gathered centrally in sections, which offer researchers the best possible working conditions.

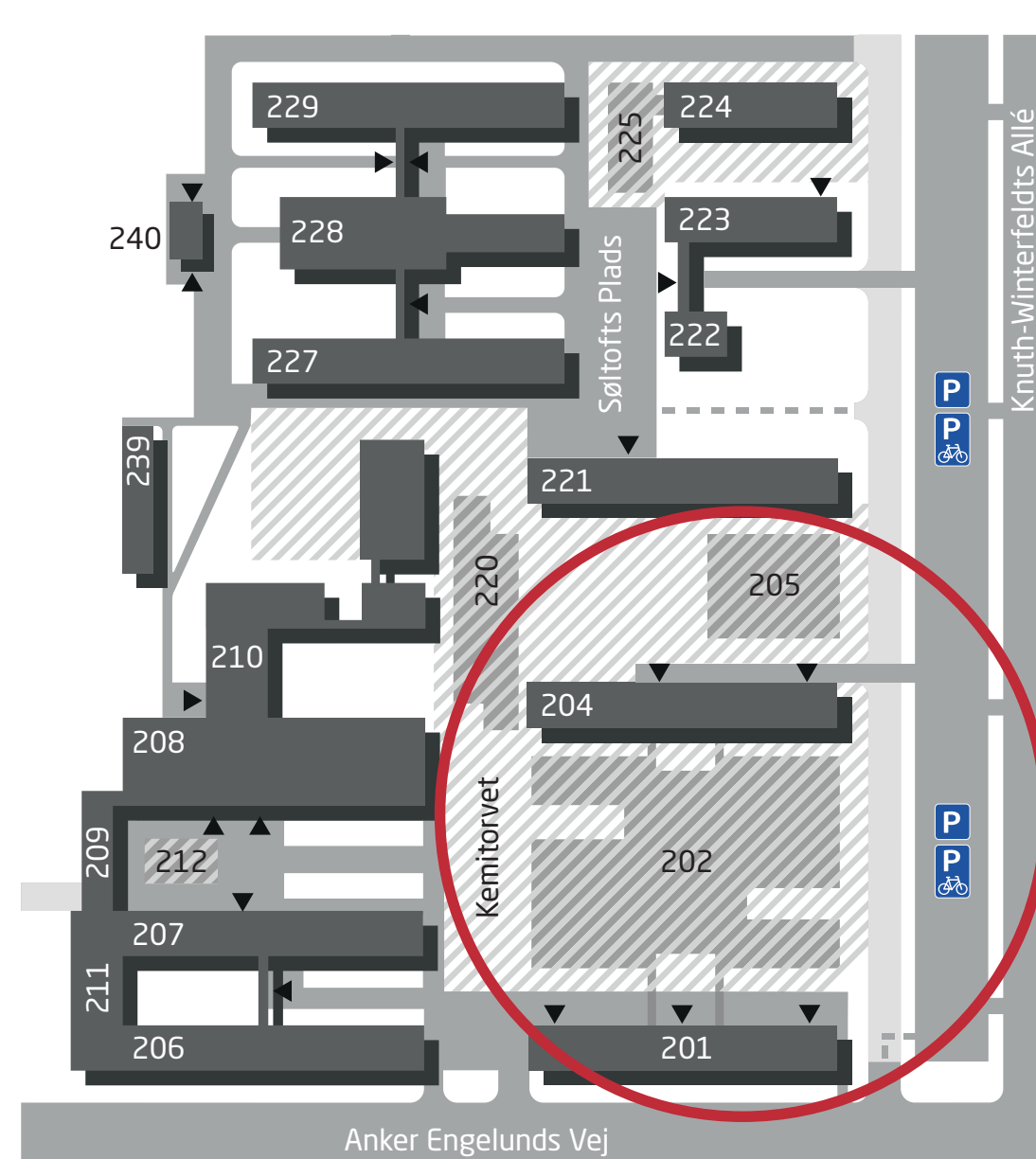
The three departments that are moving into the Life Science & Bioengineering complex will be distributed between the various buildings and levels. Most of the laboratories are located in Building 202.

The laboratories are located close to goods and staff lifts, while the offices and social areas are oriented towards the ends of the buildings. The lab offices have direct access to the building's roof gardens and balconies,

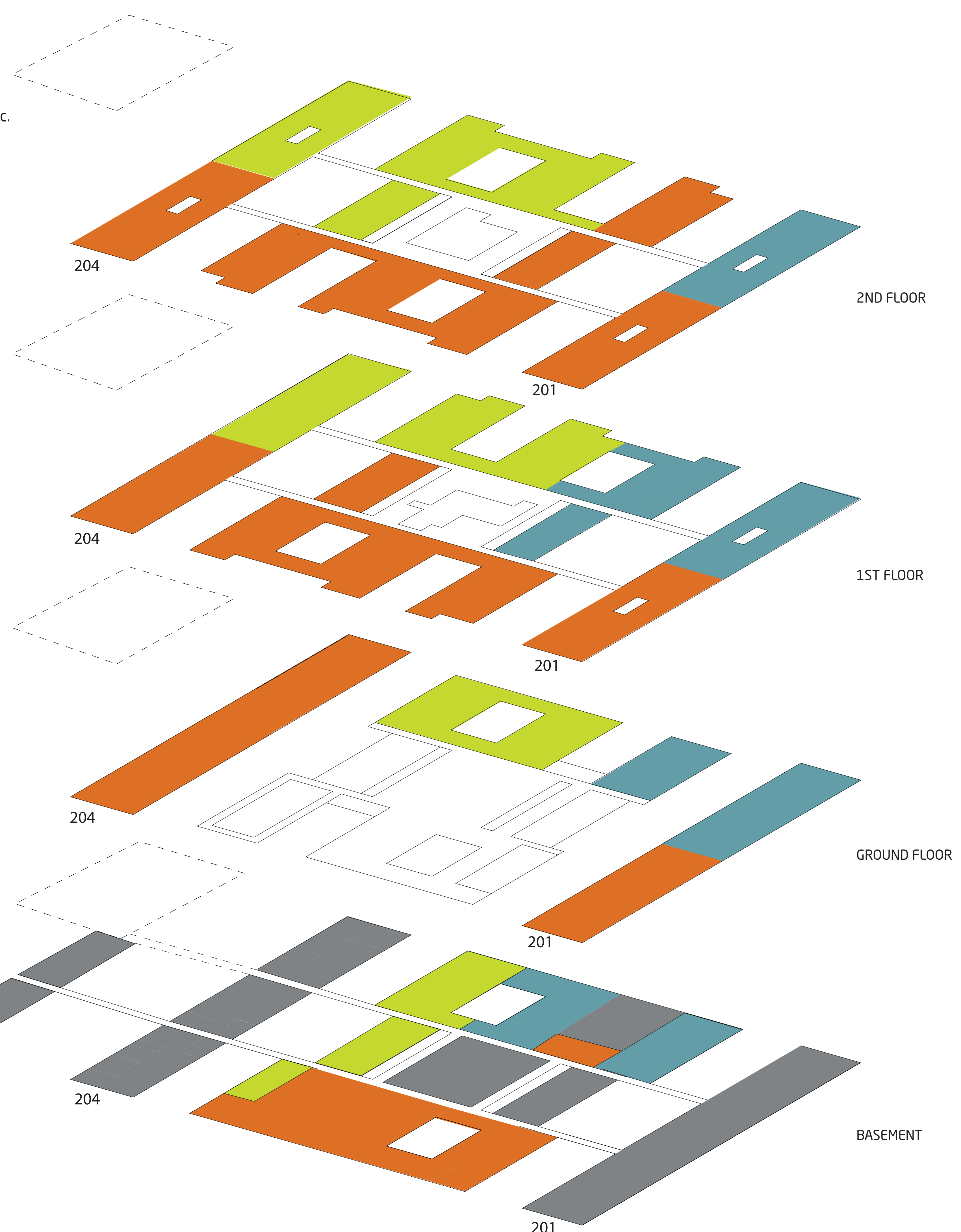
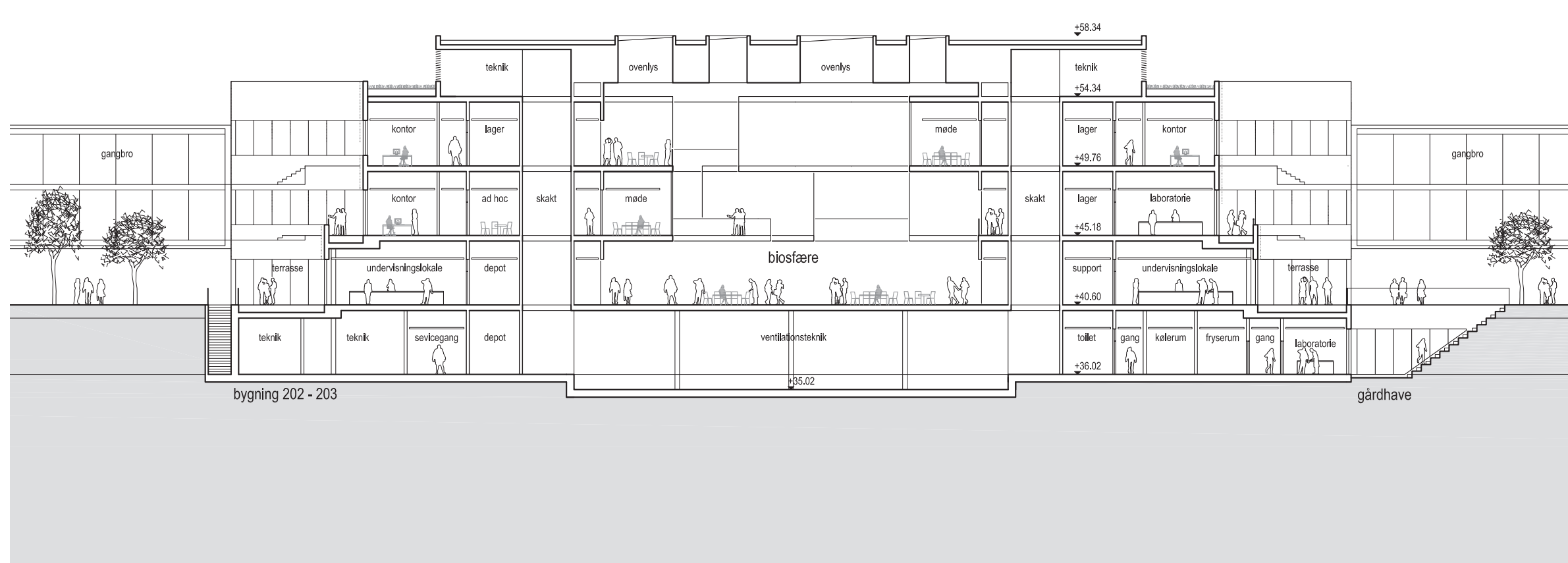
and glass walls and open areas ensure uninterrupted views of the courtyards, while the work taking place in the laboratories is visible from the Biosphere below and to passers-by in the corridors. At basement level, there is a blue zone with fish pens and a section for small animals.

The distinctive black roof houses the technical installations. The building will be the largest in Denmark to use

ring ventilation, a very flexible solution that is particularly suitable for laboratories, which normally use a lot of energy for air extraction, from chemicals and fume cupboards, for example. The system will ensure enhanced flexibility in the 250 laboratories, and allows ventilation to be targeted where it is most needed. It is estimated that the system will help cut electricity consumption by approximately 50 per cent compared to a standard laboratory building.



- DTU Aqua
- DTU Vet
- DTU Food
- Tech. installations/depot/archive, etc.



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With the new Life Science & Bioengineering complex, DTU is taking a step towards achieving its ambition of basing a major part of its life science and bioengineering activities on Lyngby Campus.

The Life Science & Bioengineering, Buildings 201-205, is being constructed in the northern section of DTU's Lyngby Campus (Quadrant 2), and will thus be located close to related departments such as DTU Chemistry, DTU Chemical Engineering and DTU Systems Biology. Buildings 201-205 will also be positioned close to DTU Biosustain - Novo Nordisk Foundation Center for Biosustainability, which in 2016 will be moving into a new six-storey research building with a staff

of more than 200 highly qualified people devoted to biotechnology research.

With a unified bio-scientific research environment on DTU Lyngby Campus, the University will strengthen partnerships between academically related engineering disciplines, utilize the shared research facilities, and boost the involvement of DTU's research staff in teaching the next generation of engineers. The goal is to cre-

ate a research environment that is even more attractive to leading international researchers and ambitious students both from Denmark and abroad.

Access to the Life Science & Bioengineering complex is through Kemitorvet, and from the avenue via the inner courtyard. It will therefore be natural to pass through the ground floor of the complex when walking to and from the Main Building 101.

