

Design PPT/website graphic of a Smart Building consisting 8 components.

HC RT (www.hcrt.nl) in the Netherlands is part of HC Groep (www.hcgroep.com) and provides control technology & smart building solutions for commercial buildings such as offices and multi-story residential buildings (apartments).

Smart Buildings are becoming increasingly important to make buildings sustainable, healthy, and efficient with a focus on users.

HC RT is the market leader in Smart Buildings in the Netherlands.

For a new PPT presentation and also for use on the website, we want to develop a graphical model of a Smart Building (modern office building) where the 8 components of our proposition are visualized both individually and as a whole.

The idea is to make contours of a modern office building (for example, in light grey lines) and place the 8 components of the proposition on the building one by one, each with a (simple) icon to visualize the components and 1 to 3 words for clarification. The icons will also be used as standalone items. The 8 components as a whole form then the building. We are looking for a creative way how the 8 components are shaped and interlock with each other.

The 8 components are:

1. Building Automation

The automation of the cooling, heating, ventilation, and lighting systems forms the basis of every Smart Building. This foundational system consists of sensors, actuators, network and room controllers, and a building management system (BMS).

2. IT Network

A professional IT infrastructure is necessary to quickly and securely transport data within the building and to/from the Cloud. Such a structure includes managed switches, (redundant) fiber optic cabling, cybersecurity, and Cloud solutions.

3. Sensor Network

Data is collected using a fine-mesh network of (multi)sensors. This data covers all aspects of the building, including technical installations, users, usage patterns, and the environment.

4. Data Collection

Data is processed into information, leading to insights for improving building efficiency. In case of detected deviations, corrective actions are automatically triggered.

5. Connectivity

Within a Smart Building, many different products and systems are installed that produce data. It is important that these communicate and collect data in a uniform manner, without the need for various protocol converters. This interoperability is essential for optimal building operation.

6. Cybersecurity

A professional and controlled cyber security solution is required for the collection, transportation, security, storage, manipulation, processing, and sharing of data. This applies both within the building itself and for data traveling to and from the Cloud and external data centers.

7. Data Storage

Due to the heavy reliance on data, it is essential for the continuity and security of a Smart Building to establish what is known as an independent data layer. This layer stores and processes data regardless of the sensor or device that generates it.

8. Third-party Integration Solutions

Building automation, data solutions, IT networks, and cybersecurity solutions are provided by HC RT as integrated solutions. We also deliver seamless integrations with third-party solutions.

These 8 components are described in more detail in the attached SMB brochure, this is in Dutch. The page showing the components is also a good indication of the style we are looking for.

There is a specific arrangement of the components: at the bottom, covering the entire ground floor of the building is 1. Building Automation. Above that, centrally located within the building and vertical up to the roof is 2. IT Network. Additionally, to the left and right of 2. are the components 3, 4, 5, 6, 7, and 8.

The designer can choose the shape of the building and the shapes of the components comprising the building, keeping in mind that the building should not be too tall for use on PPT slides and web pages.

Each component and icon must also be usable as a standalone object.

We are looking for a modern technical style.

Example graphic styles:



Example icon styles:

Line, two colors, no background



RGB Green: 118-182-42

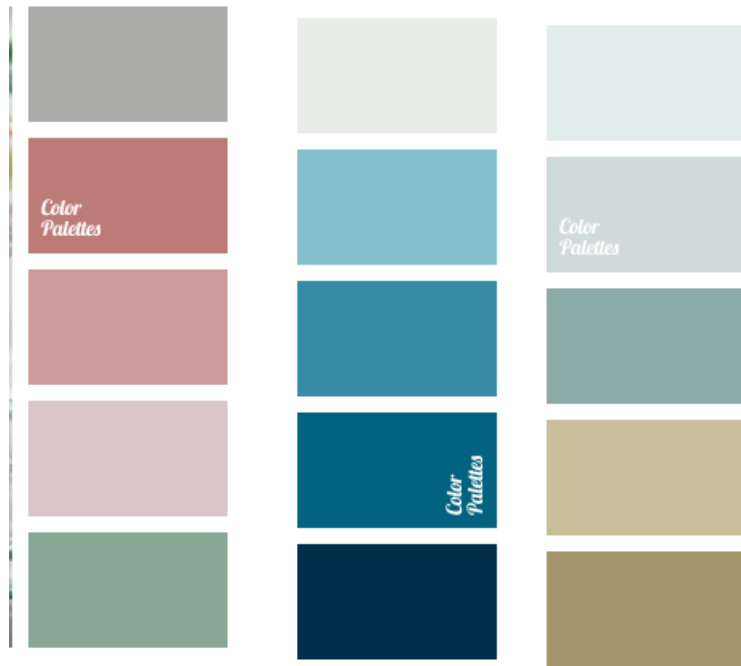
Line, one color, no background



Solid, one color (white), rounded single color background/round



Color palettes:



Icon examples:

1. Building Automation



2. IT Network



3. Sensor network



4. Data collection



5. Connectivity



6. Cybersecurity



7. Data storage



8. Thrid-party integration solutions

