

SMART BUILDING CHEAT SHEET#2

START HERE ▾

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QUESTION ANSWERED BY THIS CHEAT SHEET

Which project roles and expertises are required for a Smart Building project?

BEFORE YOU START: PRIORITIZE YOUR USE CASES

1. Prioritize your use cases (see Smart Building Cheat Sheet #1).
2. Assign responsibilities for required technologies.
Requirements complete?

Start with the Smart
Building Cheat Sheet #1
[here](#).



STEP 1: IDENTIFY CONSTRAINTS BETWEEN ACTIVITIES

What are the constraints between activities? What is the logical sequence of activities?

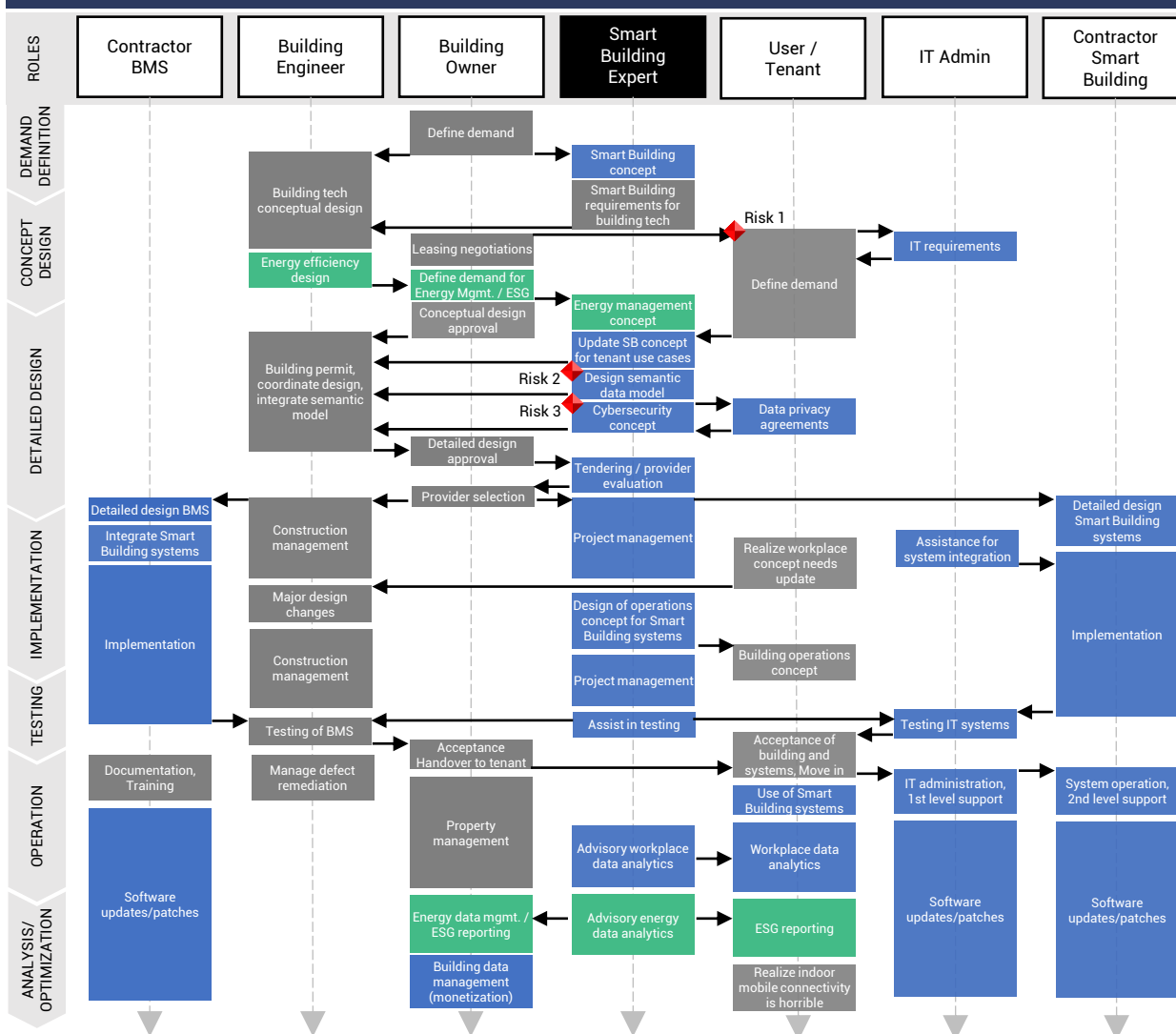
STEP 2: IDENTIFY REQUIRED EXPERTISE AND RISKS

What expertise is required for each activity? Which project role can provide it? Where are major risks?

PROJECT PHASE PLAN

Principle: By identifying constraints between activities, a logical sequence arises.

Considerations for single tenant buildings. Only essential activities, project roles and risks for Smart Building projects displayed. Sequence may differ.



ROLE DESCRIPTION

SMART BUILDING EXPERT

Main Activities:

Use case design
Smart Building concept
Semantic data modelling
Energy management concept
System testing
Expertise:
Data privacy
Cybersecurity
Data management
Building technologies
Energy management
Project management

CONTRACTOR SMART BUILDING

Main Activities:

Design integration of Smart Building, BMS, IT systems
Sensor installation
Operating system configuration
Implement semantic data model
Expertise:
Data privacy regulation
Data management
Cybersecurity
IT system operation

CONTRACTOR BMS

Main Activities:

Design /implementation of BMS
Collaborate with Contractor Smart Building
Implement semantic data model
Expertise:
BMS expertise
Data management
Cybersecurity
Building technologies
IT expertise

BUILDING ENGINEER

Main Activities:

Design building tech
Design integration of building tech and Smart Building
Collaborate with Smart Building expert
BMS testing
Expertise:
Building technologies
Energy efficiency design
Building regulations
Construction management

IT ADMIN

Main Activities:

Define IT requirements
Integrate user/tTenant IT with Smart Building systems
IT solution design
System testing
Expertise:
Data management
Data privacy regulation
Cybersecurity

INSIGHTS FROM THIS CHEAT SHEET

- ▶ Many activities require IT / data expertise, which most building engineers lack.
- ▶ Many constraints require integration of Smart Building activities with building design.
- ▶ The role of the Smart Building Expert is essential to cover the required expertise of IT/data, building tech and energy management.

RISK 1: NO USER ADOPTION

If user/tenant is not involved in early design, there will be little adoption of the final solution.

RISK 2: NO AI-READINESS

If no standardized semantic data model is defined early on, this could block AI applications.

RISK 3: WEAK CYBERSECURITY

If cybersecurity is not considered in early design, tenants might not be willing to pay for the solution.

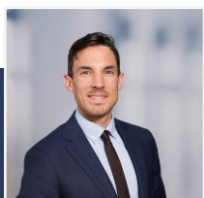
NEXT STEPS

- 1/ Which KPIs are relevant to measure success?
- 2 / Who will operate the final solution and analyze the data?
- 3 / FOLLOW US ON LINKEDIN for the next SMART BUILDING CHEAT SHEETS !

SYNERGY OF EXPERTISE IN SMART BUILDINGS



Get in contact with us to get expert support on how to plan, install and operate your Smart Building.



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Smart Building Design and Operation

- ▶ Smart Building Management
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