

FIRE CASE STUDIES IN 20th CENTURY SPANISH ARCHITECTURE

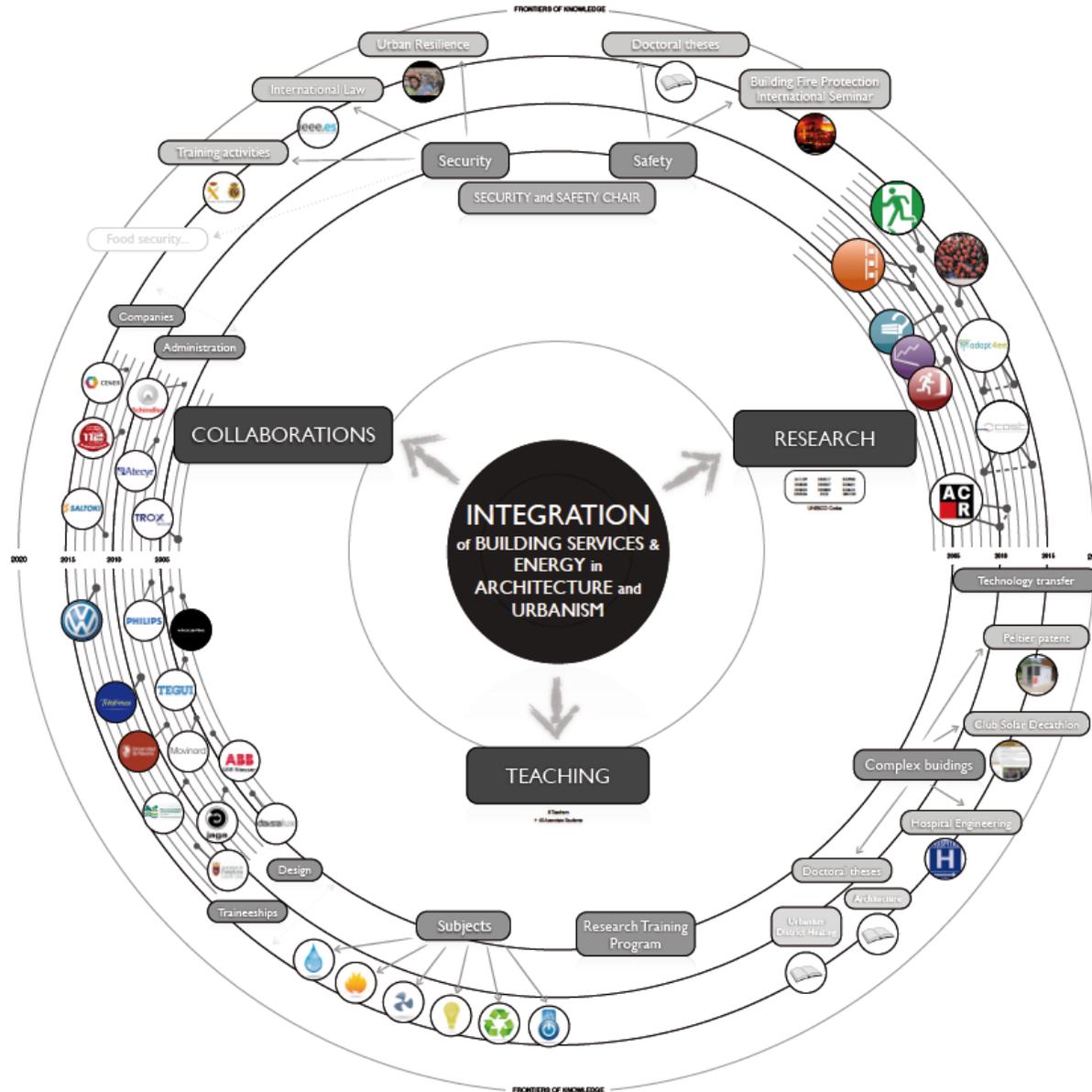
**AUTHOR. NATALIA MAMBRILLA HERRERO
TUTOR. CÉSAR MARTÍN GÓMEZ**

BUILDING SERVICES AND ENERGY SECTION. SCHOOL OF ARCHITECTURE

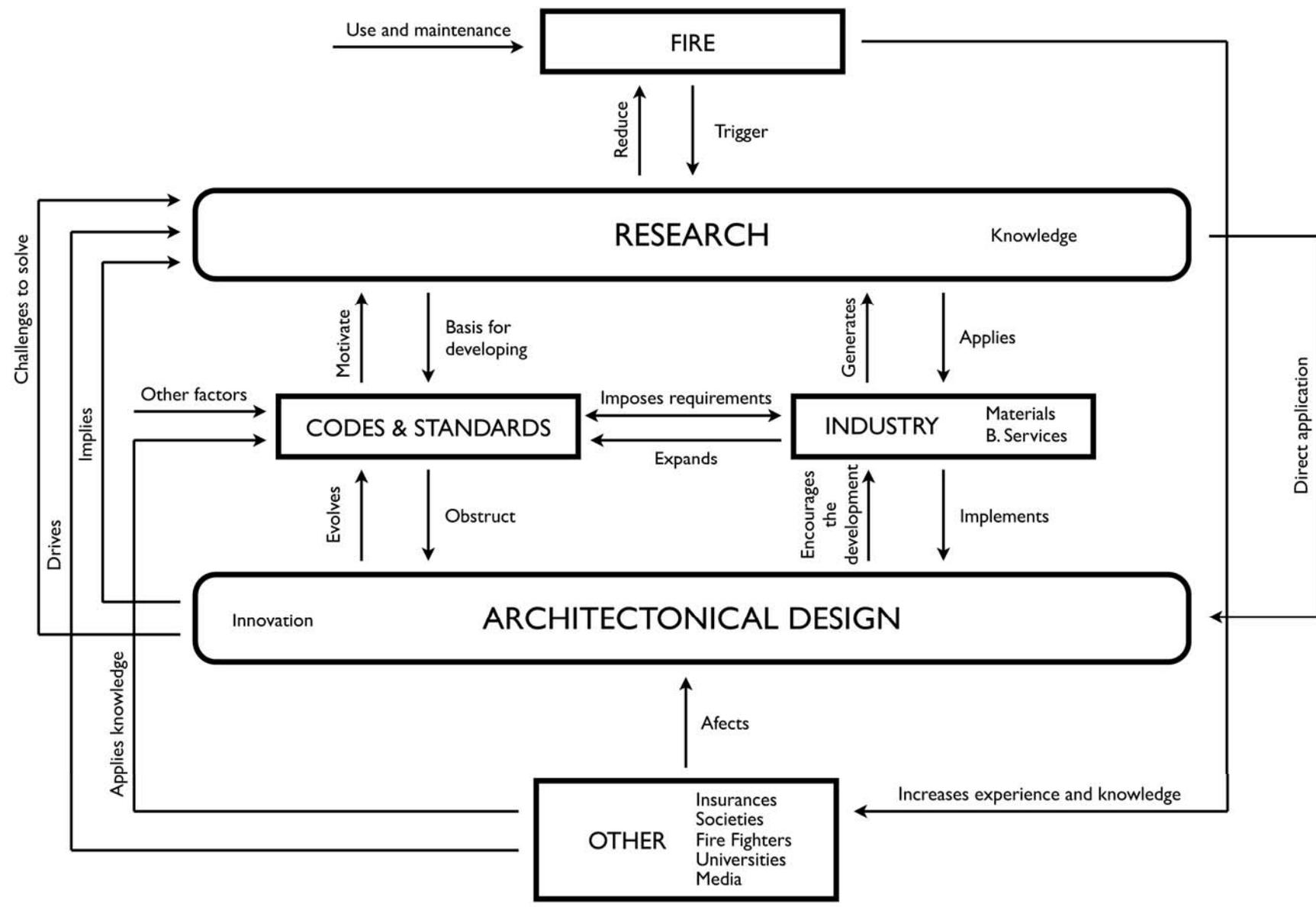


**Universidad
de Navarra**

1. WHAT WE DO

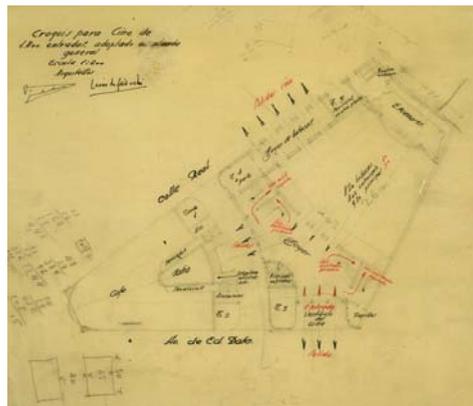
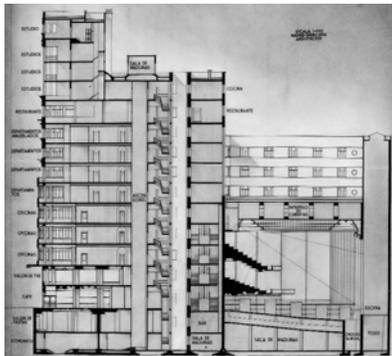
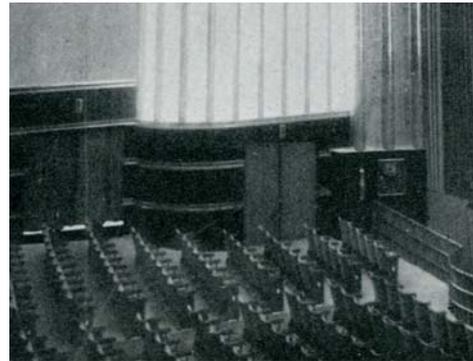
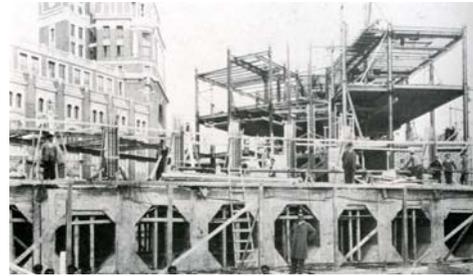


2. MY RESEARCH

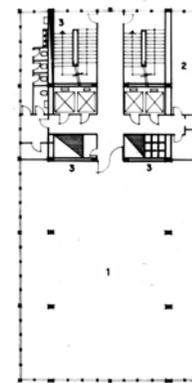
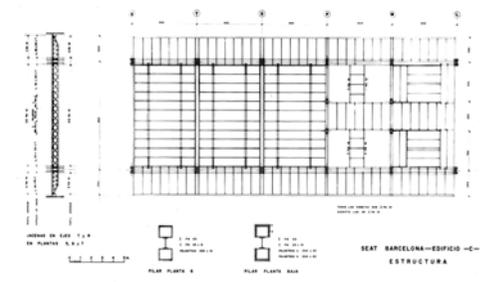
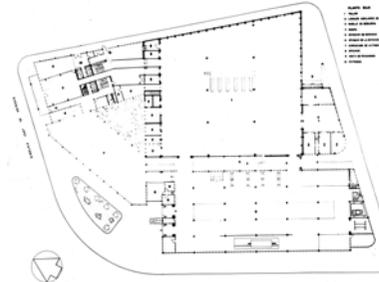
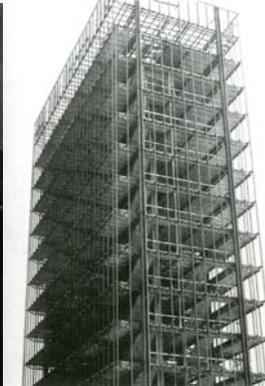


3. FIRE CASE STUDIES

CAPITOL BUILDING, MADRID, 1931-33

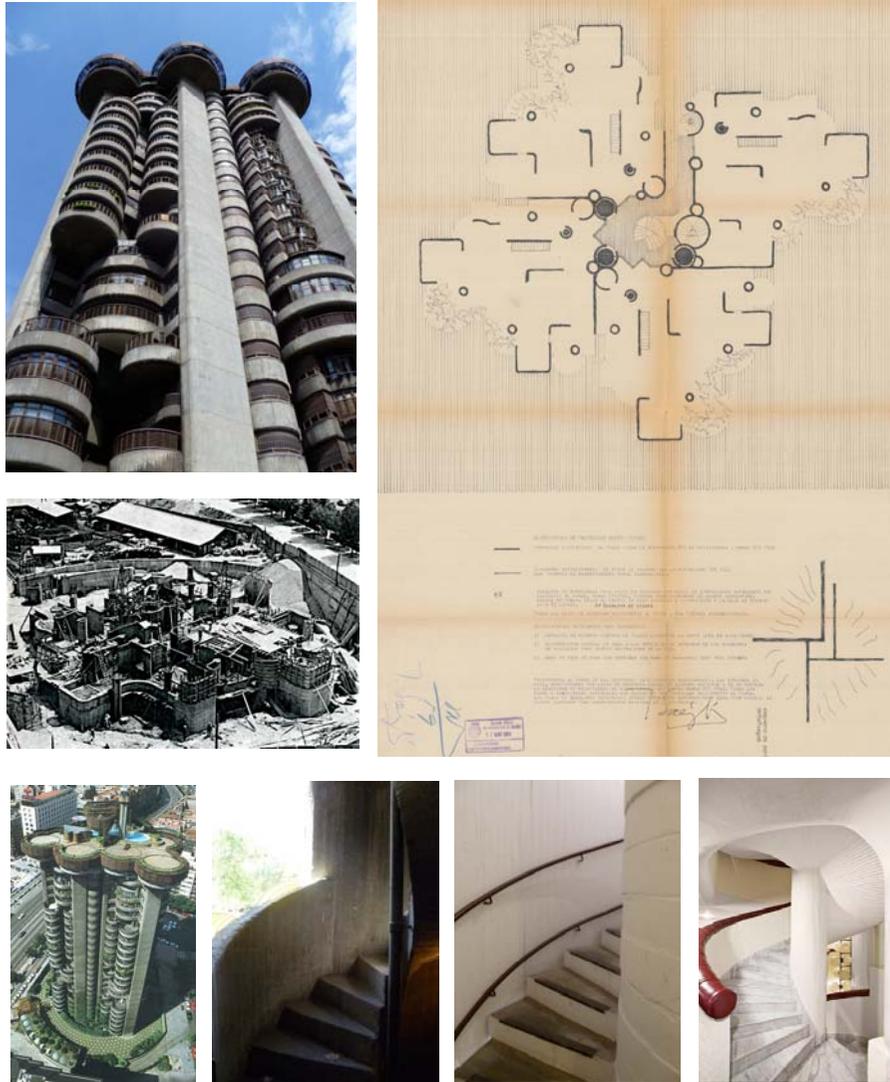


SEAT OFFICES, BARCELONA, 1961-64

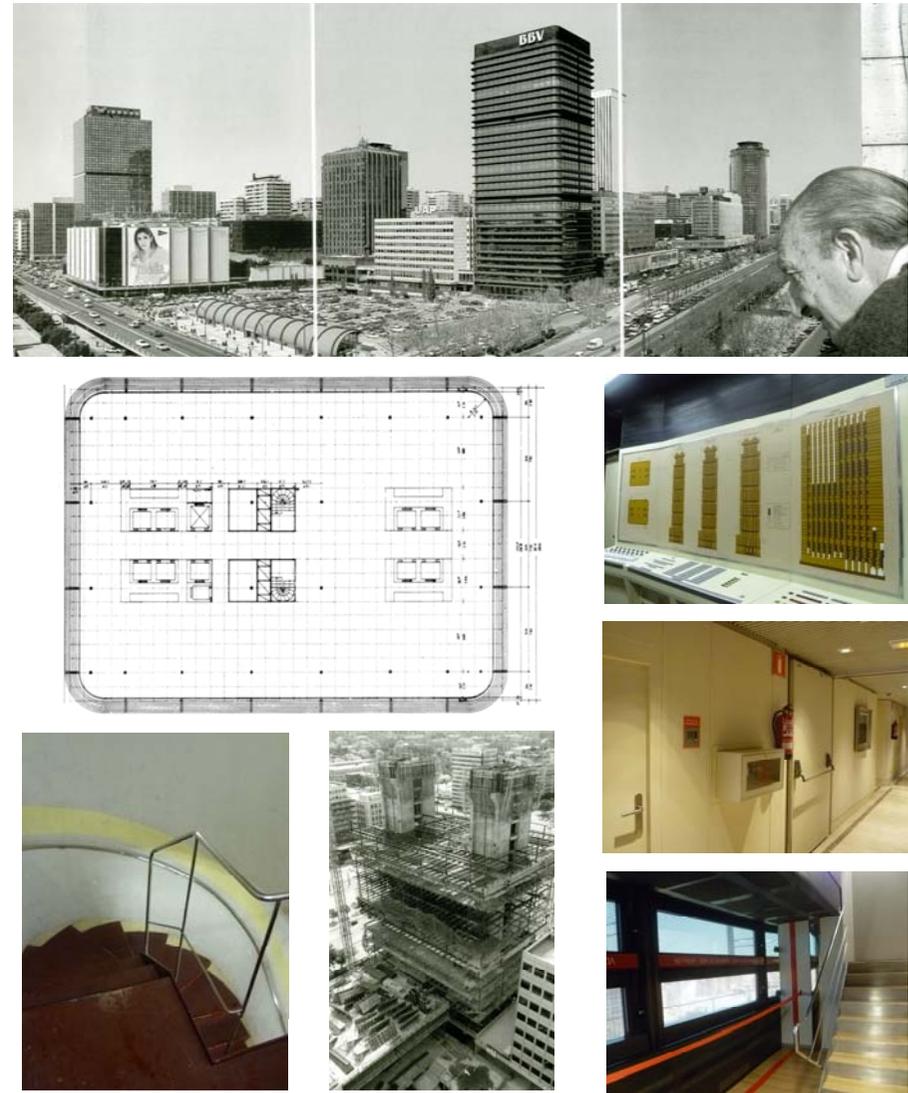


3. FIRE CASE STUDIES

TORRES BLANCAS, MADRID, 1964-69



BANK OF BILBAO HEADQUARTERS, MADRID, 1974-81



4. CONCLUSIONS

1. Fire codes don't make the building safer.
2. The concern about fire protection and prevention is reactive.
3. Connections between different agents are complex.
4. Good quality education is needed at all levels.
5. High rise buildings are driving most of the research in fire safety.