

brief development

context analysis

precint design

precedents

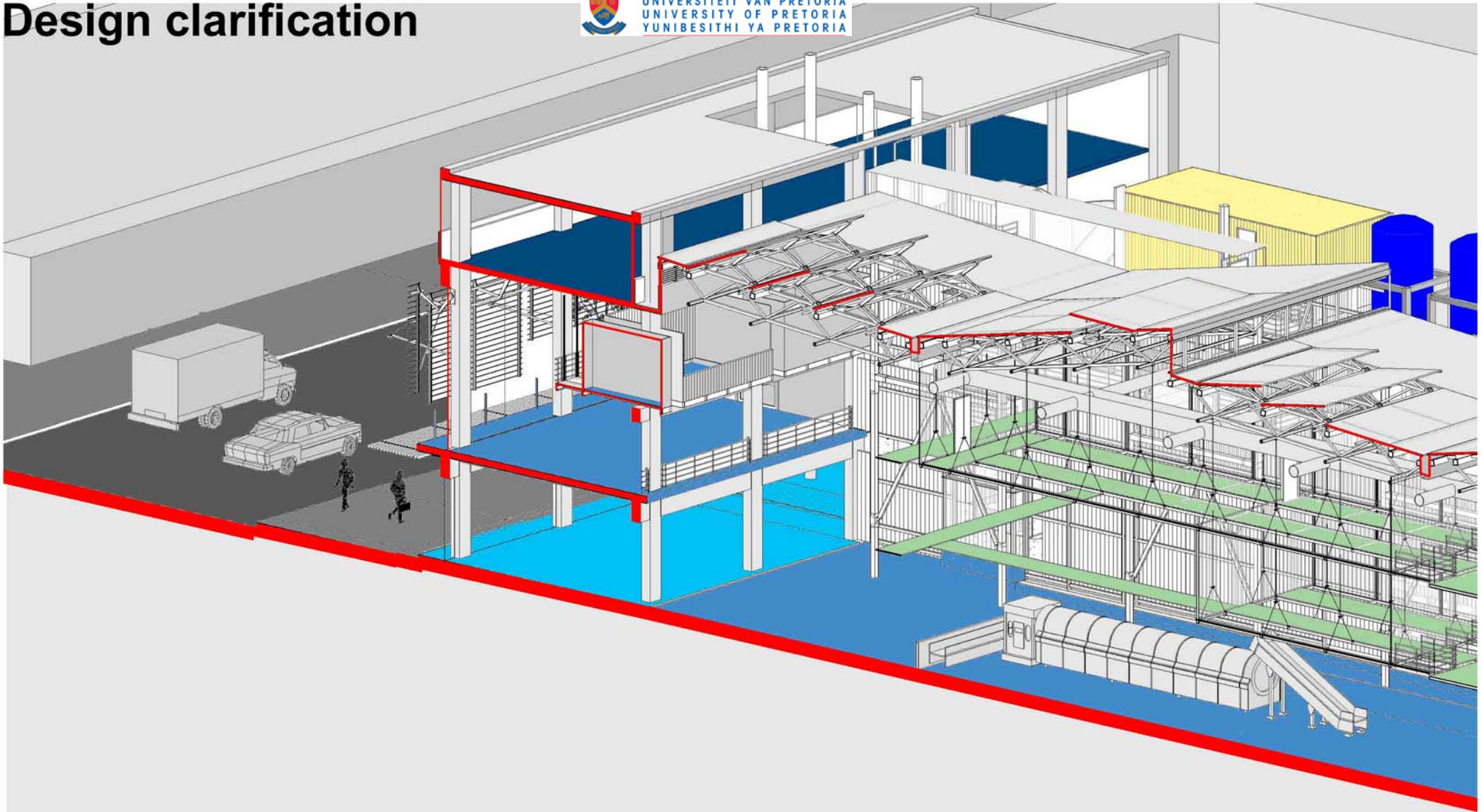
design development

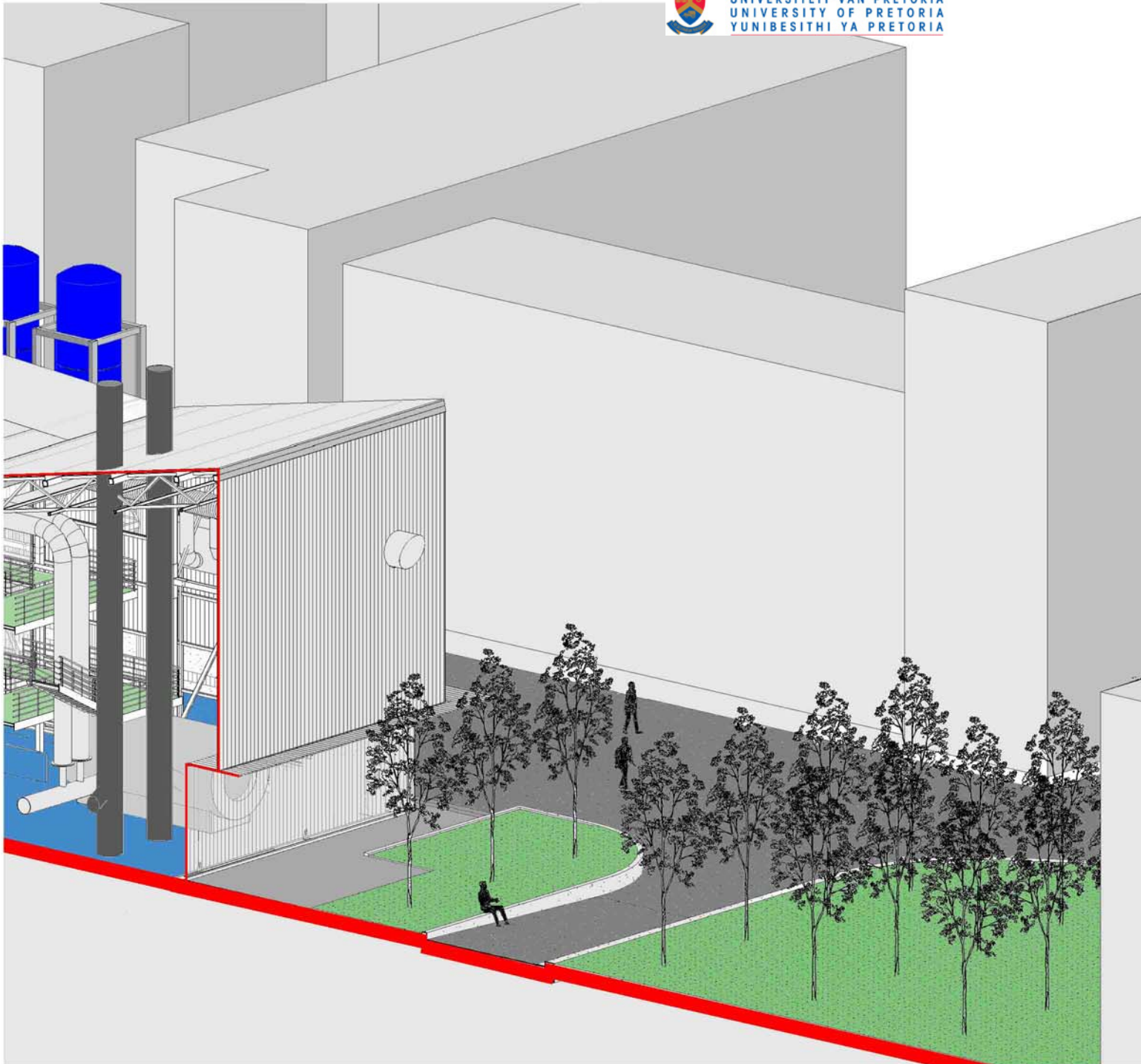
design clarification

design documentation



Design clarification





Public launderette

[Ground floor]

- Pay-point
- Washing machines
- Dryers
- Iron area
- Waiting area

Industrial laundry

[Ground and first floor]

- Dirty/soiled linen receiveing
- Dirty linen sorting area
- Continuous batch washer
- Tumbler dryer
- Clean linen sorting and preparation
- Iron, folding and packing
- Clean linen dispatch
- Offices [second floor]
- Boiler room

Pathology laboratory

[Third floor]

- Reagent preparation area
- Specimen preparation area
- Amplification [PCR] and detection room

Greenhouse

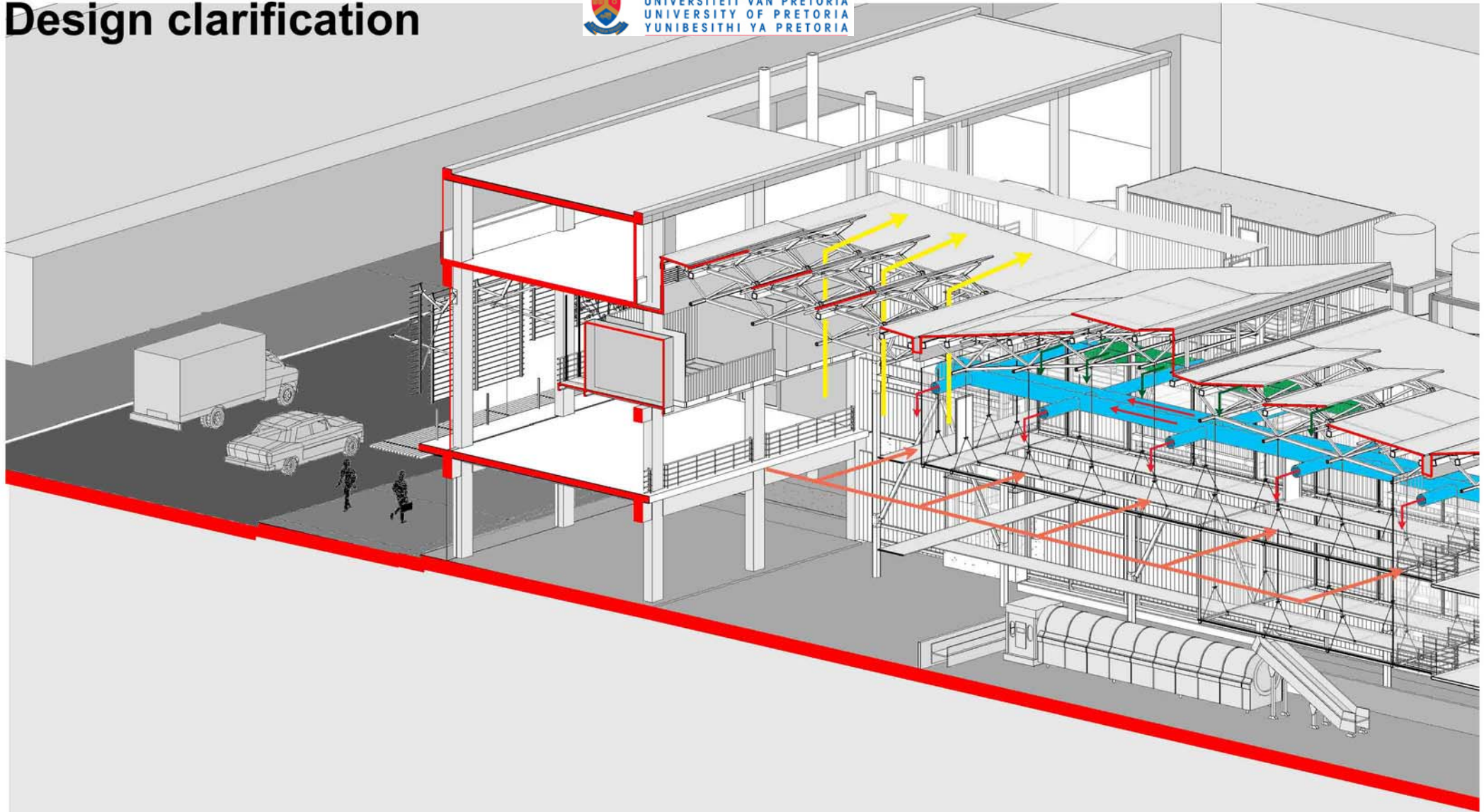
[First and second floor]

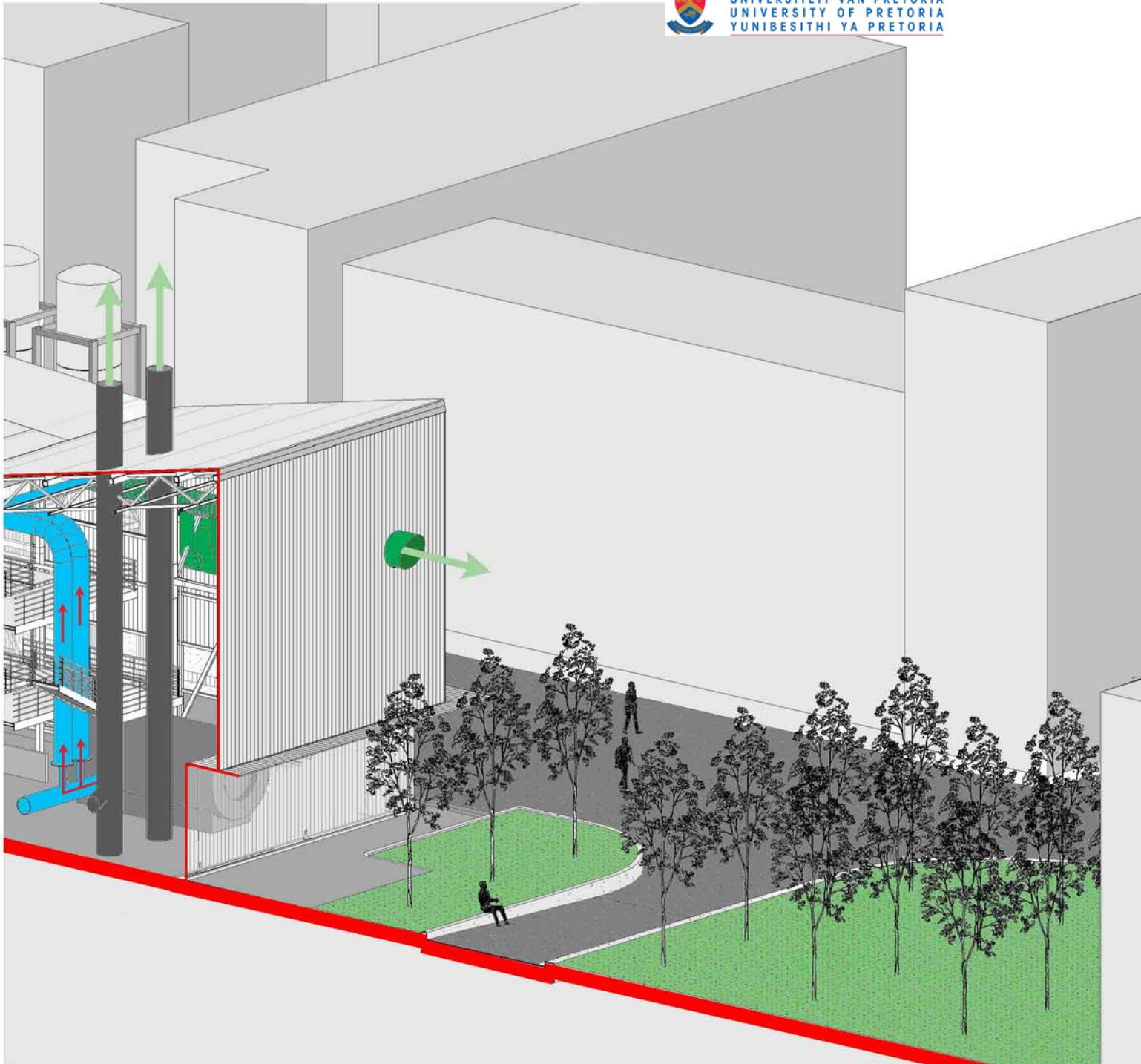
- Vanilla growth area
- Vanilla killing room
- Sweating room
- Processing and packaging

Toilet/changerooms

Water tanks

Design clarification





Dry steam from boiler into the vanilla greenhouse, killing and sweating rooms.
[65-75°C]



Wet steam from tumbler dryers to vanilla greenhouse
[45-55°C]



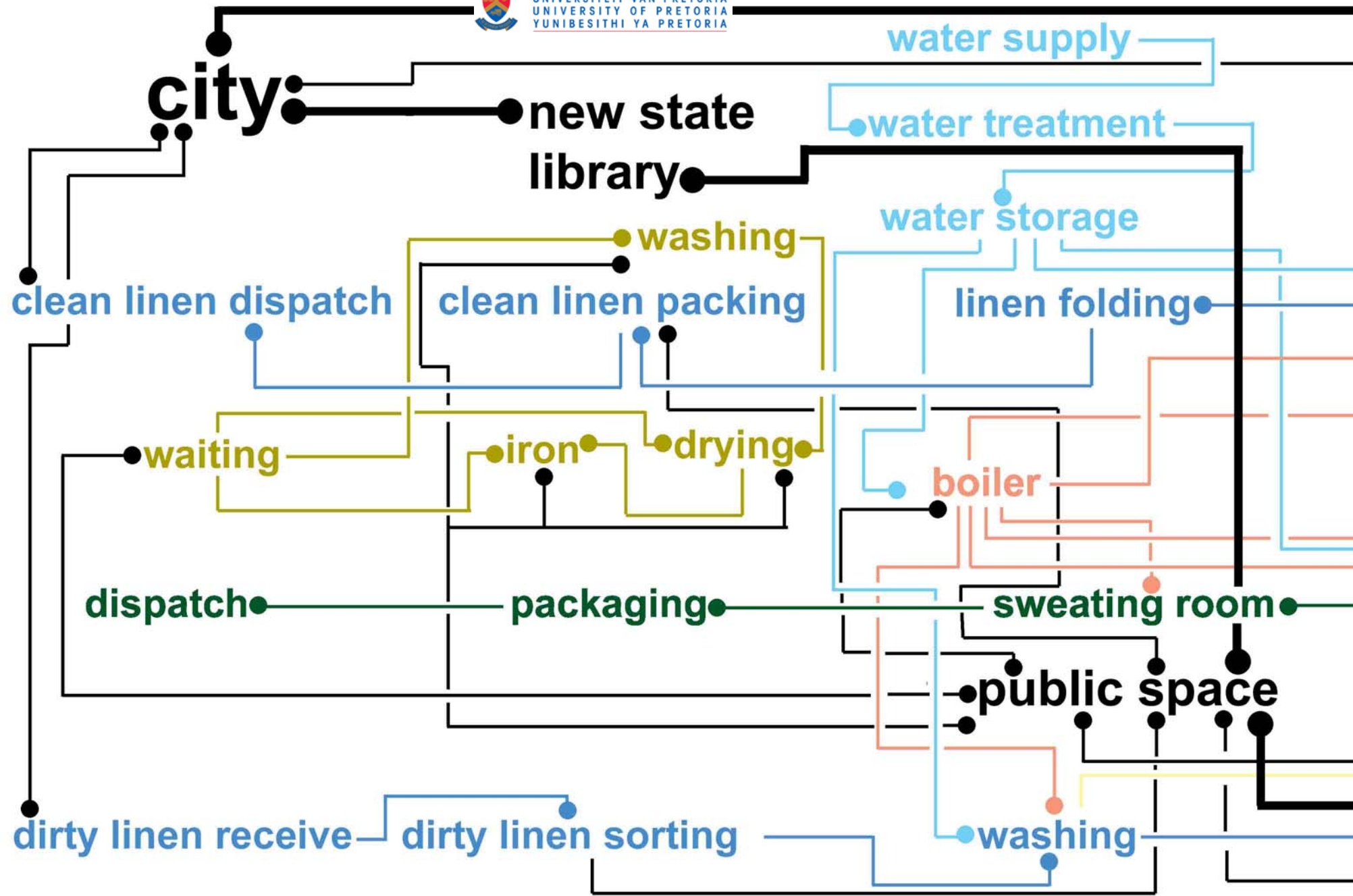
Fresh mechanically induced air into the vanilla greenhouse, sweating and packaging rooms
[18-25°C]



Stale humid air from laundry escape through mechanically operated roof louvres
[20-30°C]

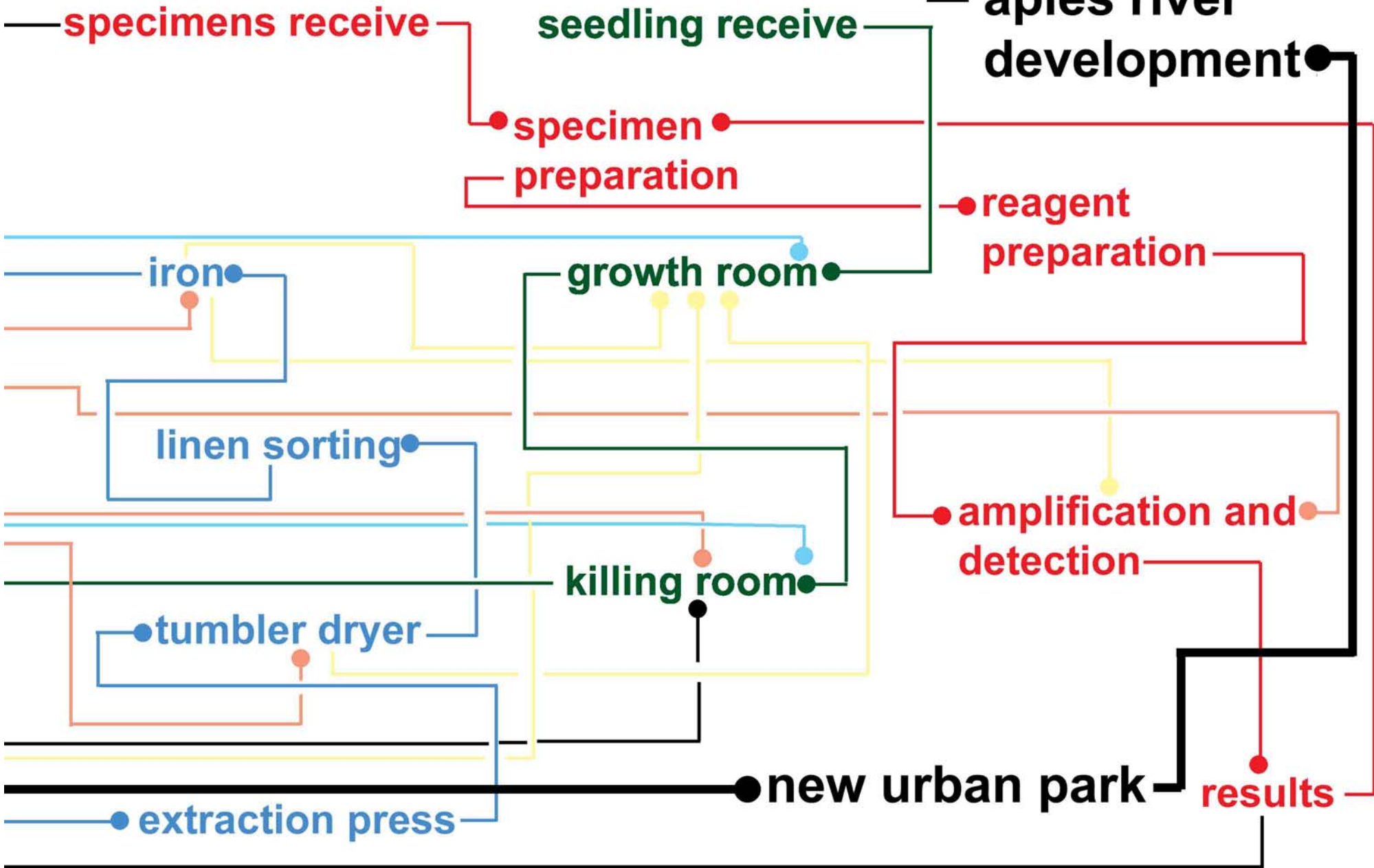


Excess mechanically induced air





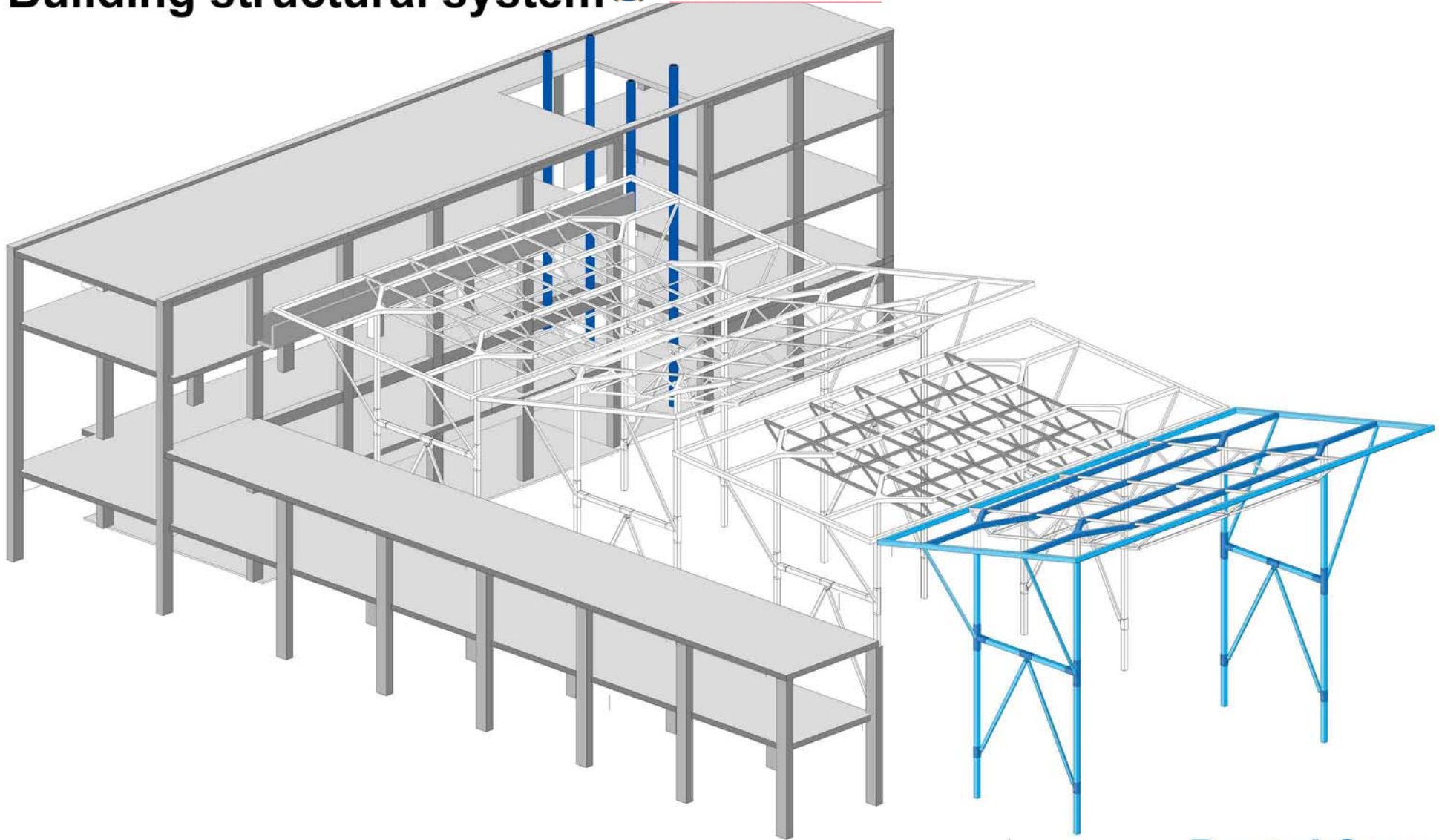
apies river development



Building structural system



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA



Portal frame
Concrete slab
and columns