

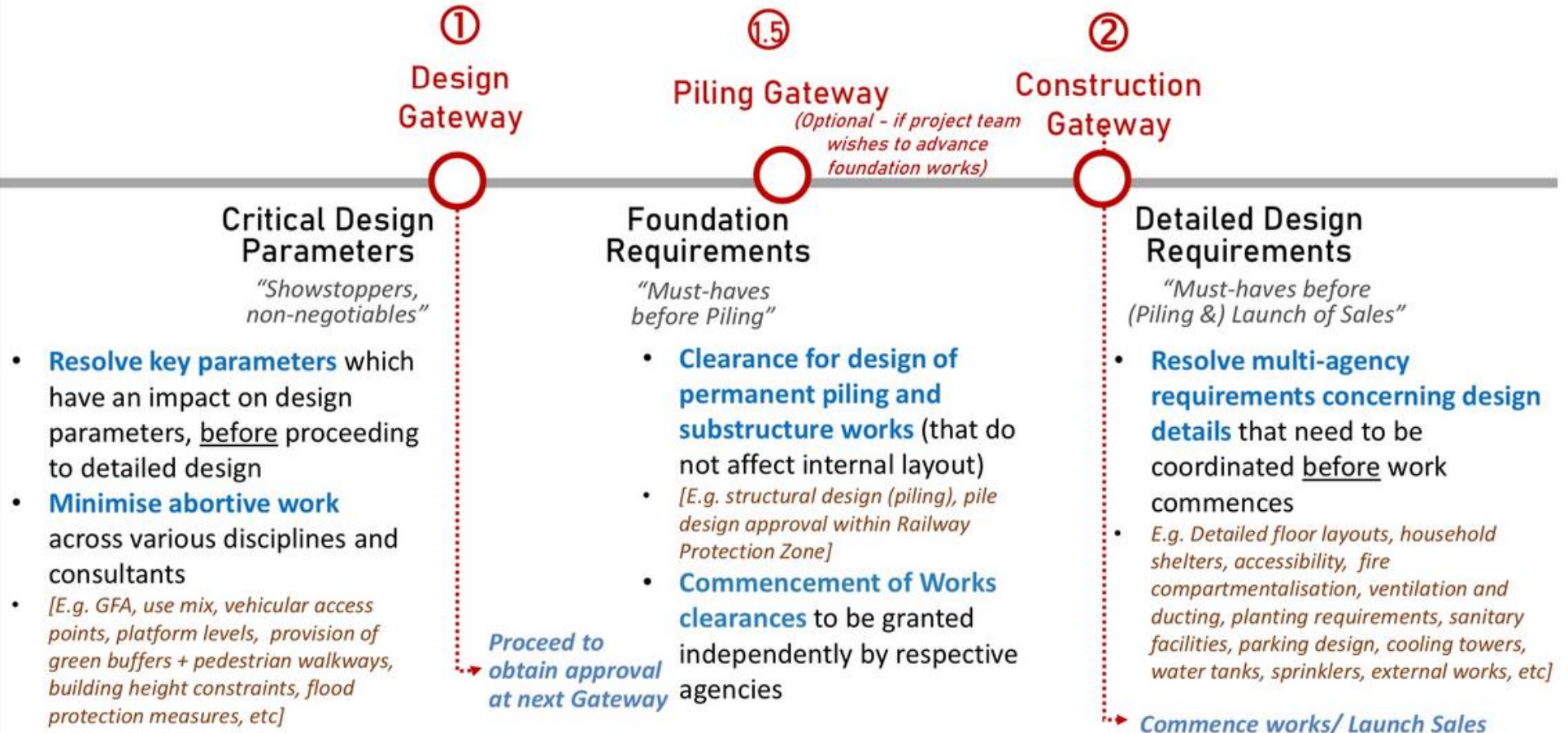
# CORENET X

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2 MAY 2024



- | **TRANSFORM** THE CURRENT REGULATORY LANDSCAPE THROUGH PROCESS OF RE-ENGINEERING, ADOPTION OF BIM TECHNOLOGIES AND **COLLABORATIVE** WORKFLOWS
- | REQUIRE INDUSTRY TO COLLABORATE AND CO ORDINATE **UPFRONT** BEFORE SUBMISSION
- | LEVERAGING ON **DIGITAL TECHNOLOGIES** TO ENABLE PRE-SUBMISSION CHECKS AND ALLOWS REGULATORY AGENCIES TO **COLLECTIVELY REVIEW** THE SUBMISSION AND ISSUED A **CO ORDINATED RESPONSE** TO THE PROJECT TEAM
  - REDUCE ABORTIVE WORK
  - SAVE TIME

# New CORENET X regulatory approval process



| CHAMPIONS WAY GLS

- SEPT 2023
- PRIVATE CONDOMINIUM
  
- CDL
- ADDP ARCHITECTS
- TW ASIA
- BELMACs
- WTP
- WOH HUP
  
- DESIGN GATEWAY
- PILING GATEWAY

| PLANTATION CLOSE (A) GLS

- SEPT 2023
- EXECUTIVE CONDOMINIUM
  
- HOI HUP
- ADDP ARCHITECTS
- RONNIE AND KOH
- RANKINE & HILL
  
- STRAITS CONSTRUCTION
  
- DESIGN GATEWAY
- PILING GATEWAY

# CX | IMPACT ON THE BUILT ENVIRONMENT

| DEVELOPERS

| ARCHITECTS

| ENGINEERS

| BUILDERS

### | CONCERN ON TIMELINE ?

- LAND BETTERMENT CHARGE  
( BOTH PROJECTS OBTAINED DG ( PP ) WITHIN THE TIMEFRAME )
- PROJECT LAUNCH DATE ( ON / AHEAD OF SCHEDULE )
- TIME - COST SAVINGS FOR PROJECTS

### | UPFRONT DESIGN DECISION

- DESIGN GATEWAY REQUIREMENTS
- UPFRONT DECISION MAKING ( NEED EXPERIENCE TEAM )
- CONSOLIDATED AUTHORITIES RESPONSE ( MINIMISE ABORTIVE WORK )

| CONTRACT PROCUREMENT

- EARLY CONTRACTOR INVOLVEMENT CONTRACT ?
- COMPLIANCE TO BUILDABILITY AND PRODUCTIVITY AFFECTING THE CONSTRUCTION METHODOLOGY FOR DG
- REQUIRED BUILDER TO CO ORDINATE DETAIL DESIGN FOR DG
- SPECIALIST INPUT IN DESIGN GATEWAY  
( AGENCIES VERY RECEPTIVES AND AGREED TO BE PUT UNDER CG )



### | MANPOWER COST

- UPFRONT WORKLOAD TO CAPTURE ALL AUTHORITIES REQUIREMENTS WITHIN A LIMITED TIMELINE AS PER COP REQUIREMENTS
- CONSOLIDATED RESPONSE FROM AGENCIES ( LESS ABORTIVE WORK BUT MORE INTENSE )

### | NEW SKILLS

- IFC SG
- UNDERSTANDING OF COP REQUIREMENTS

### | ADDITIONAL WORK

- DEVELOP BIM TEMPLATE FRAMEWORK FOR IFC PARAMETERS
- 2D IS STILL REQUIRED BECAUSE MODEL COULD NOT PROVIDE ALL INFO IN 3D

### | MANPOWER COST

- UPFRONT WORKLOAD TO CAPTURE ALL AUTHORITIES REQUIREMENTS WITHIN A LIMITED TIMELINE AS PER COP REQUIREMENTS
- TRADITIONALLY, ENGINEER INPUT FOLLOW BEHIND ARCHITECT BUT EVERYTHING IS NOW RUNNING CONCURRENTLY
- MORE CONSIDERATION FOR ENGINEERS TO DO A PROPER DESIGN WORK AND SAFE DESIGN

### | MORE SYSTEMATIC APPROVAL PROCESS

- CONSOLIDATED RESPONSE FROM AGENCIES ( LESS ABORTIVE WORK BUT MORE INTENSE )
- DESIGN GATEWAY – PILING GATEWAY – CONSTRUCTION GATEWAY
- LESS ABORTIVE WORK

| NEW SKILLS

- IFC SG
- UNDERSTANDING OF COP REQUIREMENTS

| ADDITIONAL WORK

- DEVELOP BIM TEMPLATE FRAMEWORK FOR IFC PARAMETERS
- 2D IS STILL REQUIRED BECAUSE MODEL COULD NOT PROVIDE ALL INFO IN 3D

### | EARLY CONTRACTOR INVOLVEMENT

- ENABLE BUILDER TO VALUE ADD TO PROJECTS
- NEED TO MANAGE THE MANPOWER COST  
( INPUT PRIOR TO CONTRACT COMMENCEMENT )

### | APPROVAL PROCESS

- CLEAR TIMELINE AND CERTAINTY IN CONSTRUCTION PROCESS  
( PG / CG - DESIGN APPROVED BY ALL AGENCIES )
- PHASE CONSTRUCTION - PILING / CONSTRUCTION GATEWAY  
( APPROVAL PROCESS FOR MORE COMPLEX PROJECTS ? )
- ALL STAKEHOLDERS TO DESIGN & CO ORDINATE TOGETHER,  
AGENCIES TO GIVE COMMENTS AND APPROVAL BEFORE CONSTRUCTION
- THIS WILL MITIGATE REWORK AND RESOLVE PROBLEMS / MISTAKES THAT  
NORMALLY DISCOVERED IN CONSTRUCTION STAGE  
– SAVE CONSTRUCTION TIME

## CX | CONCLUSION

- | MINDSET CHANGE – BOTH PRIVATE AND PUBLIC AGENCIES
- | CX WILL IMPROVE PRODUCTIVITY AND EFFICIENCY
- | NEED TO HAVE “A” TEAM TO MAXIMISE CX BENEFITS
- | CHANGE IN BUSINESS MODEL

THANK YOU

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