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Architects + Engineers

Marco Di Gino, President

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Keys to a Successful Project

Planning, Design, and Execution

Planning

Planning

Choosing the Right Delivery Method

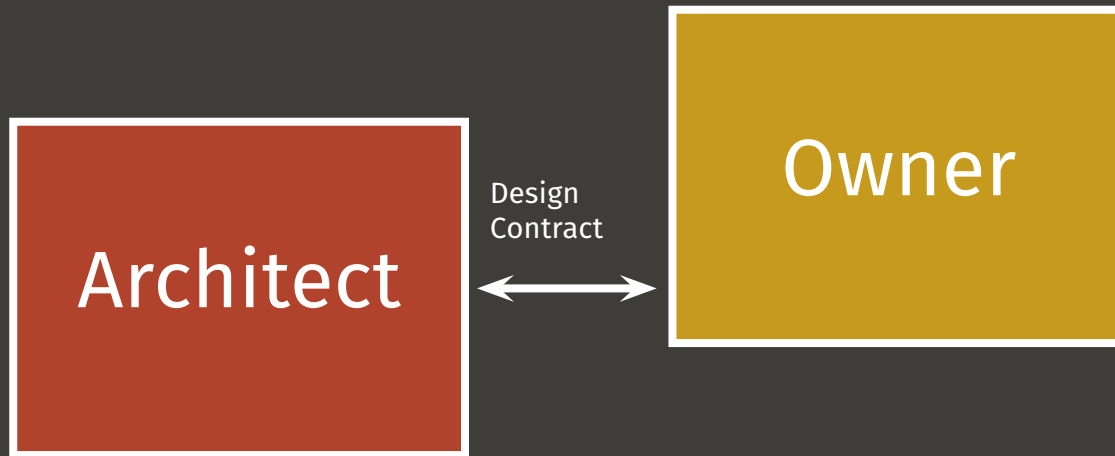
Design-Bid-Build (D-B-B)

- Most traditional method
- Design, bidding and construction documents completed prior to bidding and construction
- Contractor determined by selecting one of several bidders

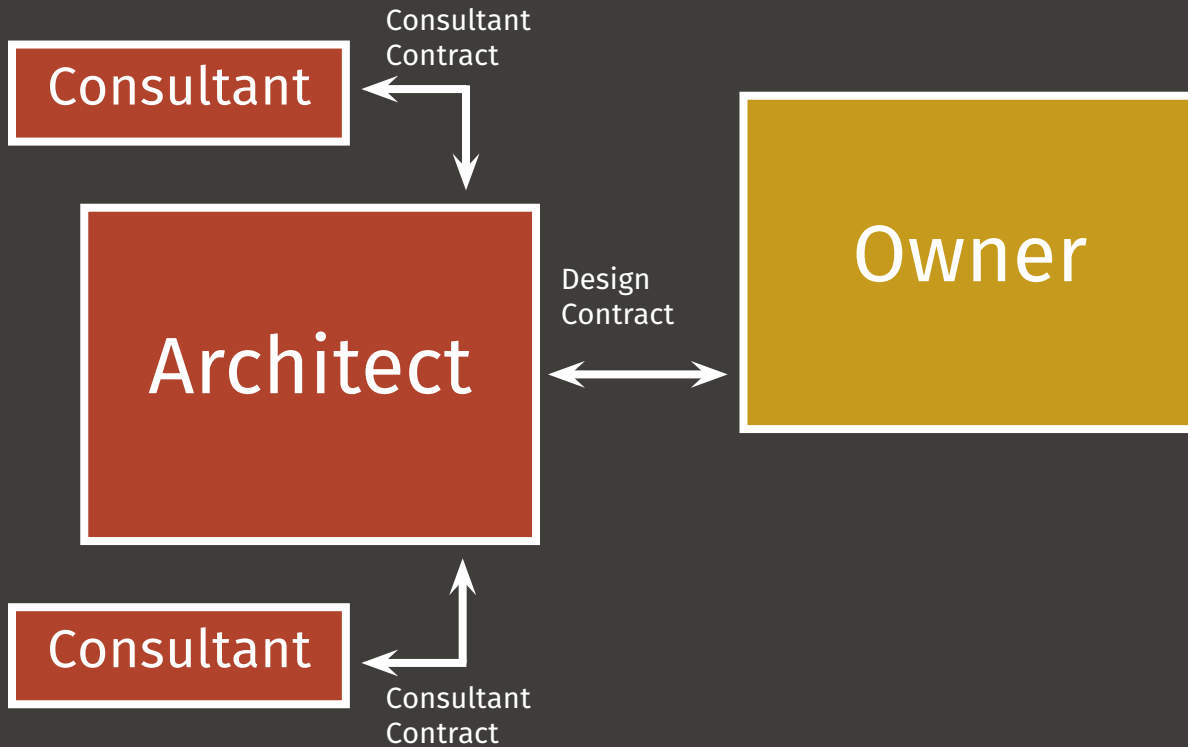
Design-Bid-Build (D-B-B)



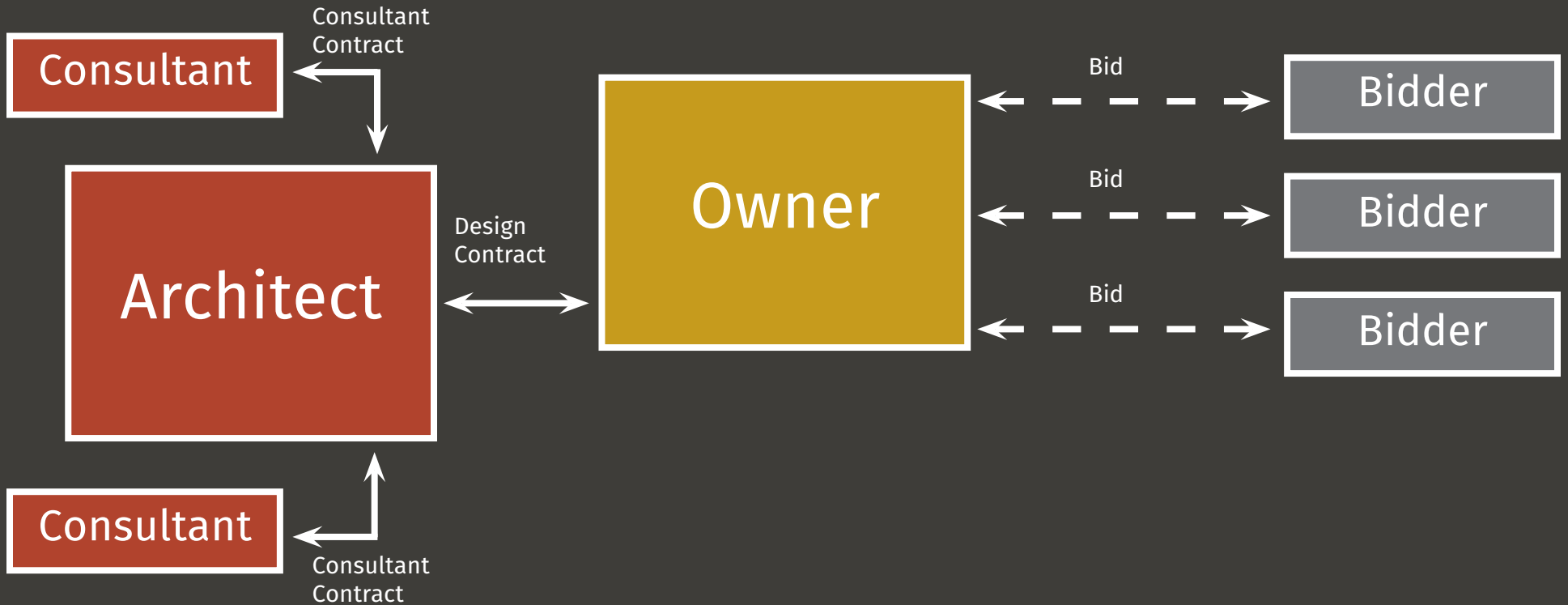
Design-Bid-Build (D-B-B)



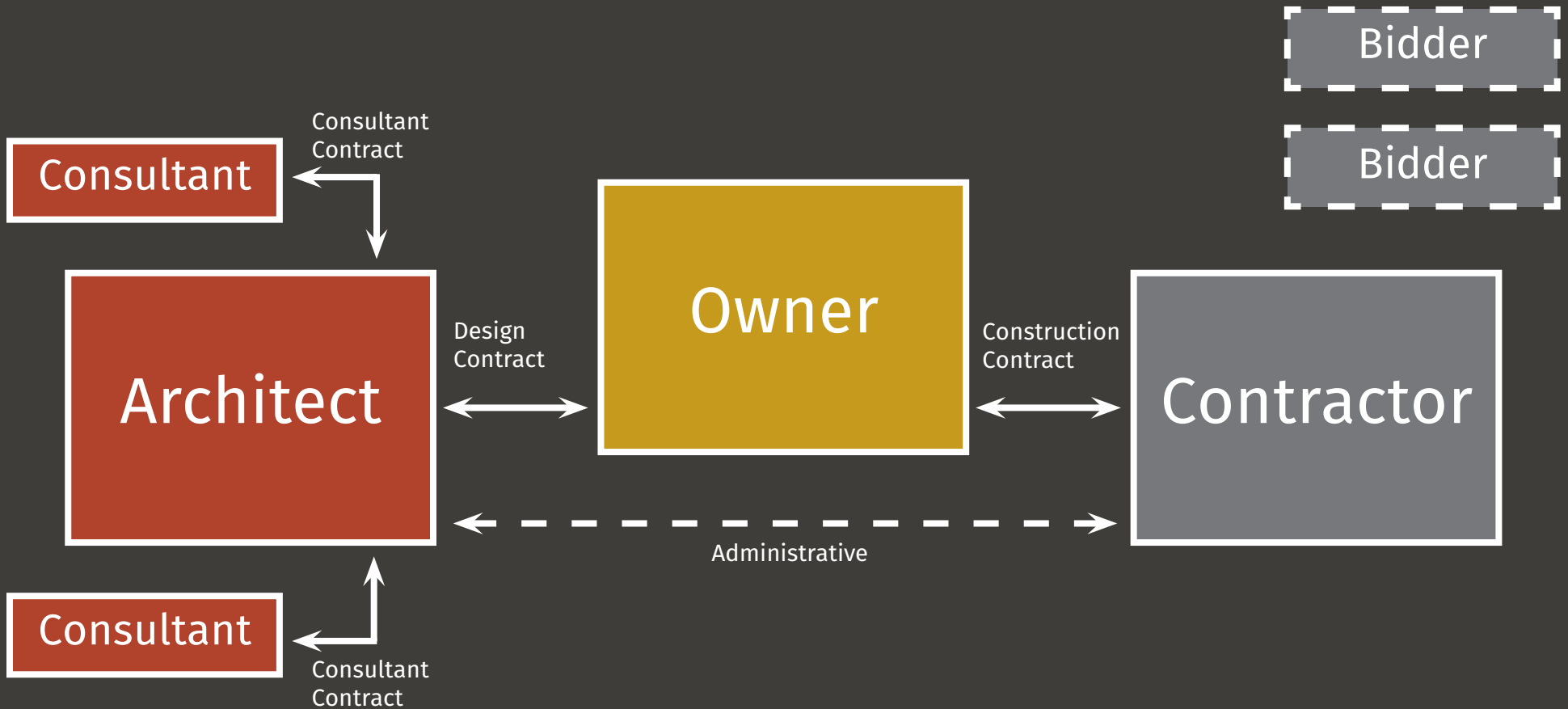
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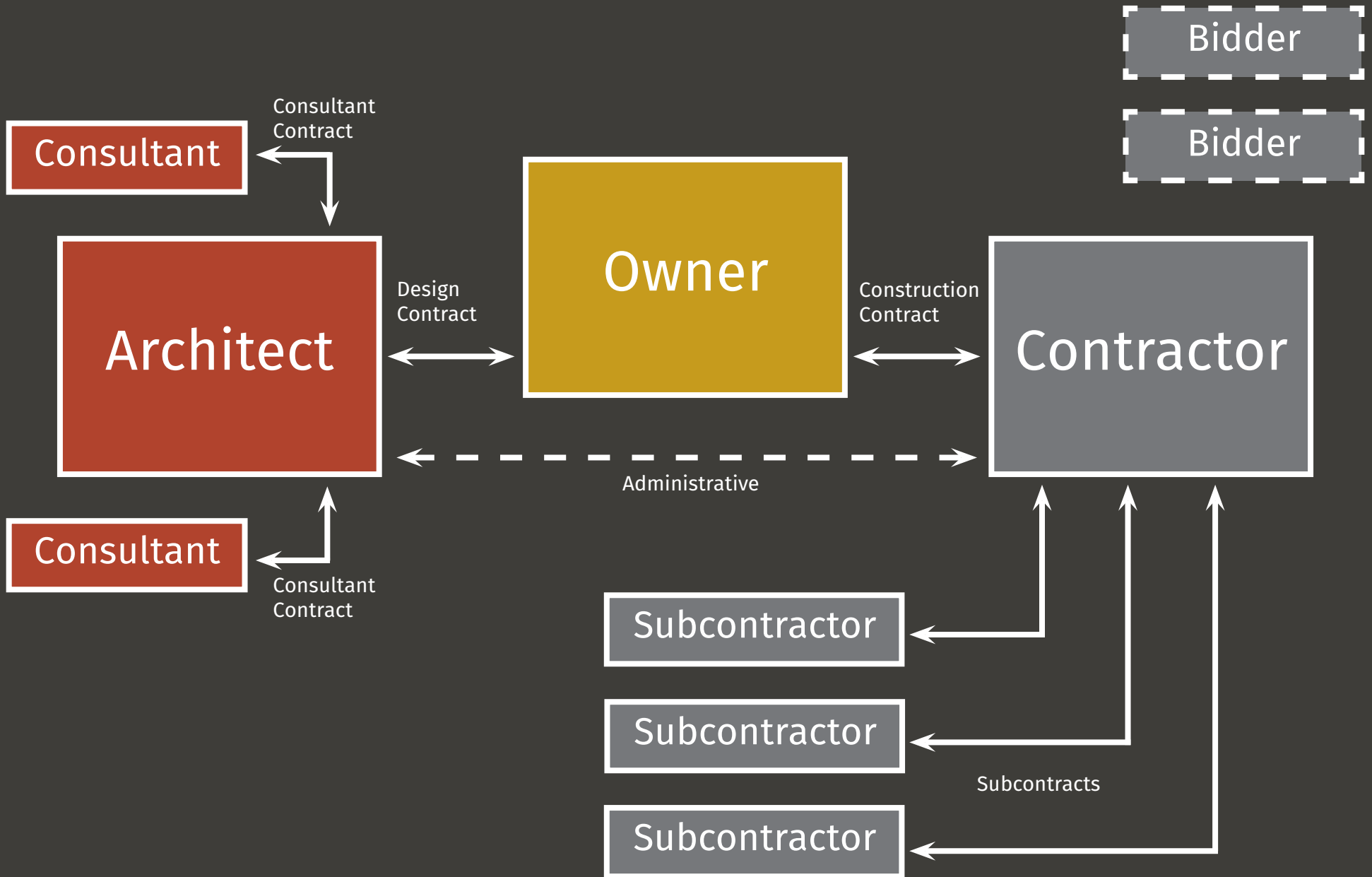
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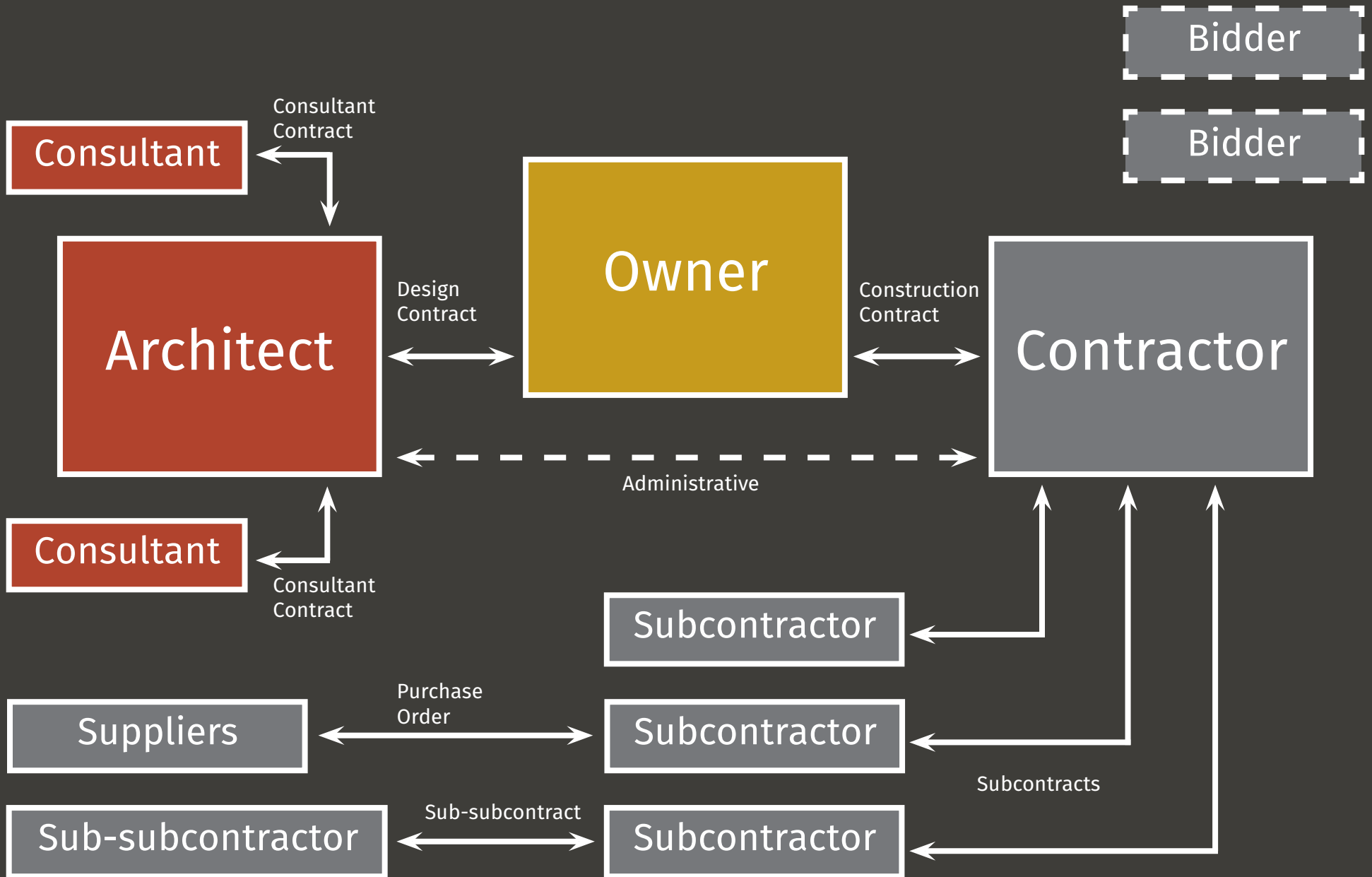
Design-Bid-Build (D-B-B)



Design-Bid-Build (D-B-B)



Design-Bid-Build (D-B-B)



Design-Build (D-B)

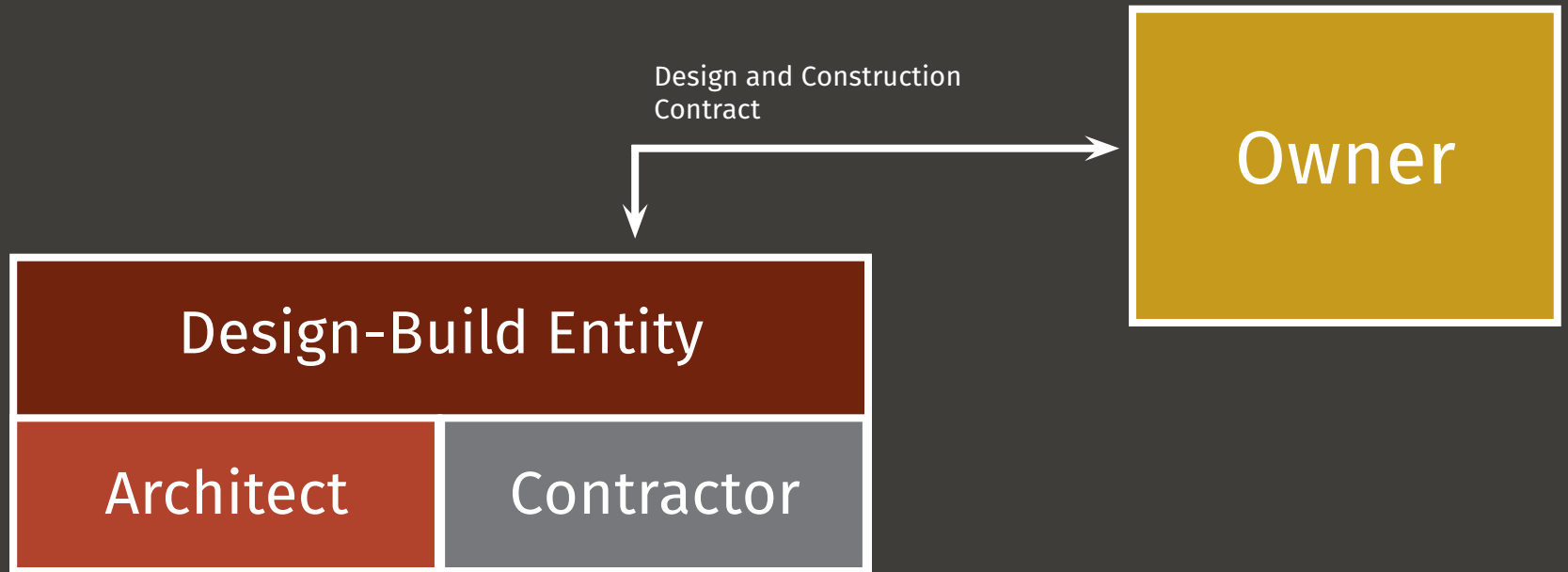
- Simplified contract method
- Owner contracts with single D-B entity
- D-B entity may be Contractor who subcontracts Design work, or vice versa
- D-B entity may be a single company, or a joint venture formed by A/E and Contractor

Design-Build (D-B)

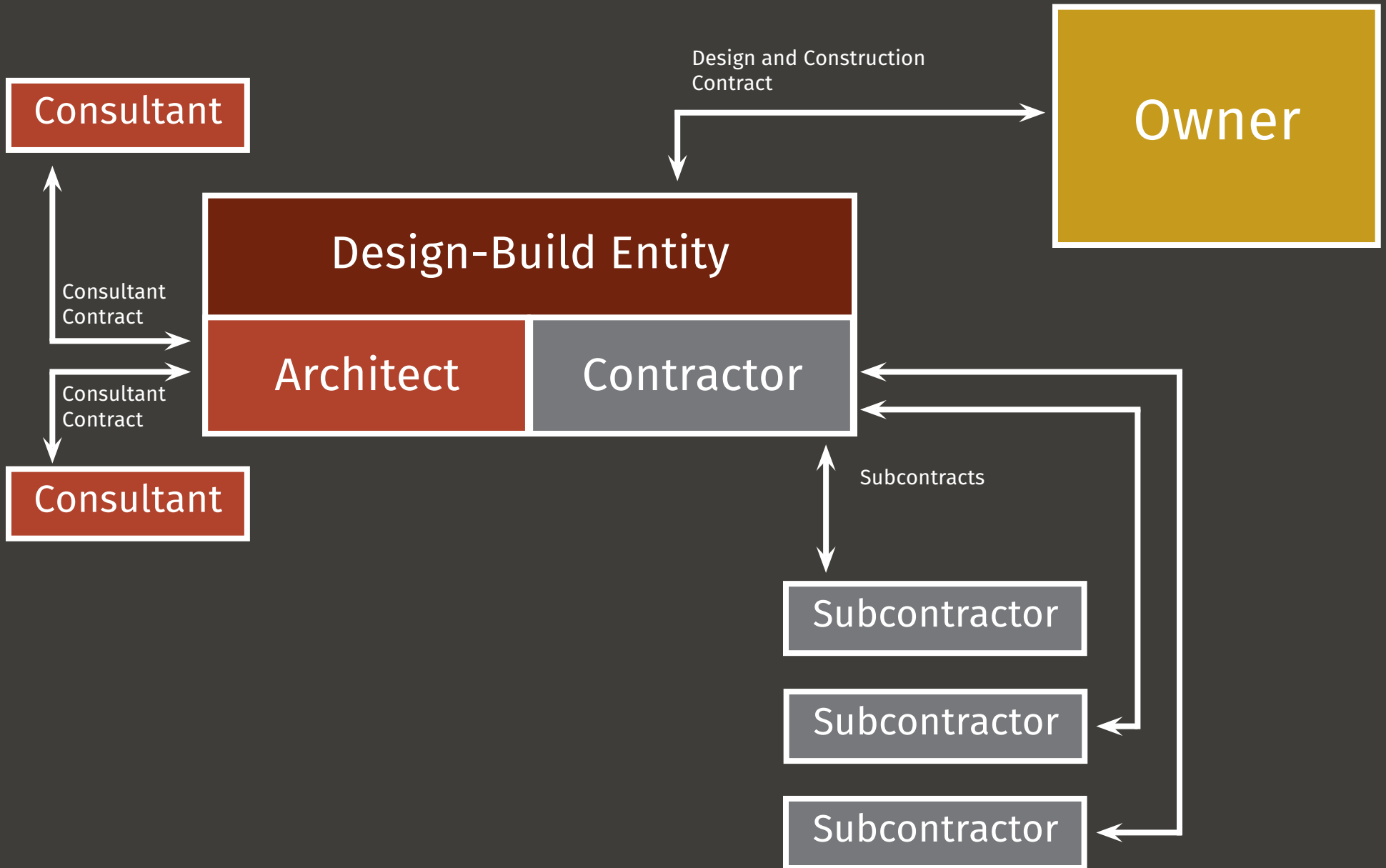


Owner

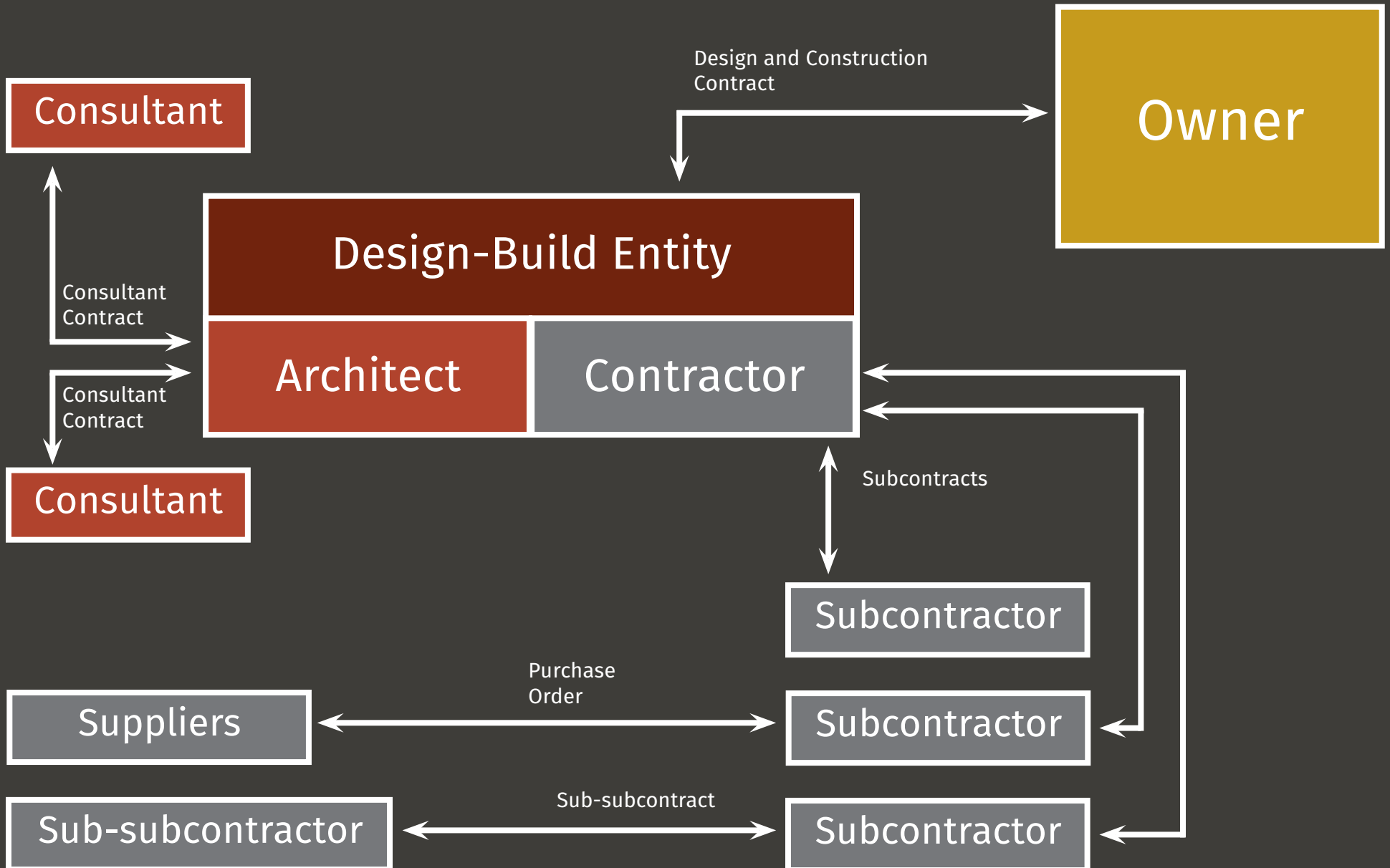
Design-Build (D-B)



Design-Build (D-B)



Design-Build (D-B)



Design-Negotiate-Build (D-N-B)

- Similar to D-B-B
- Construction documents do not need to be completed before a cost is negotiated between owner and contractor
- Negotiating work results in less adversarial construction
- Owner is permitted to participate in selection of subs and suppliers if desired

Design-Negotiate-Build (D-N-B)



Owner

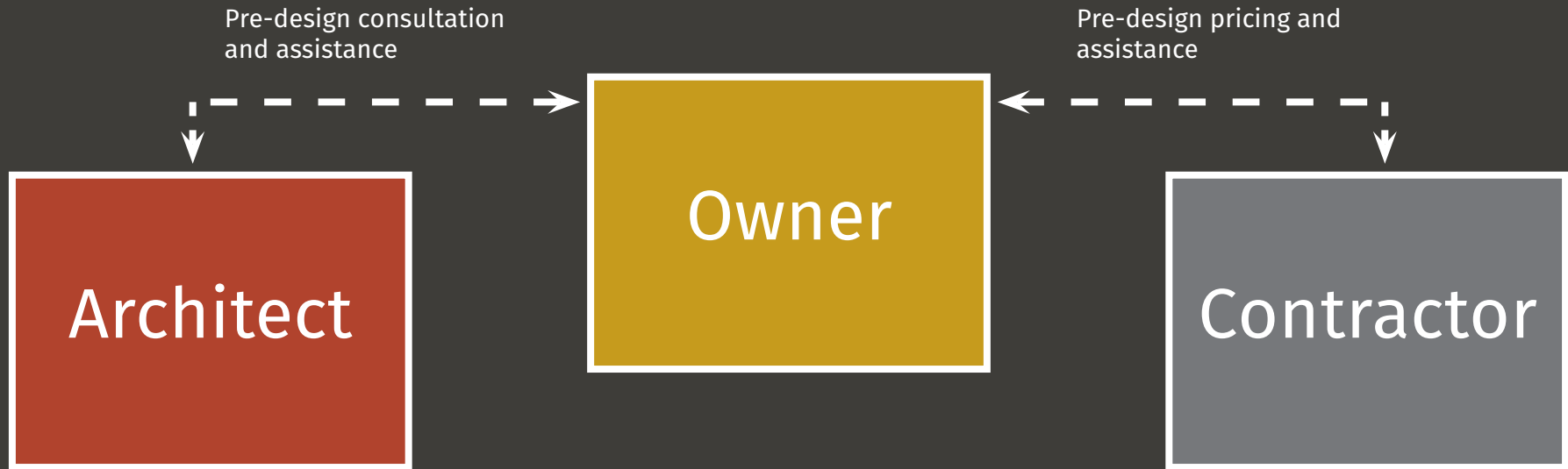
Design-Negotiate-Build (D-N-B)

Architect

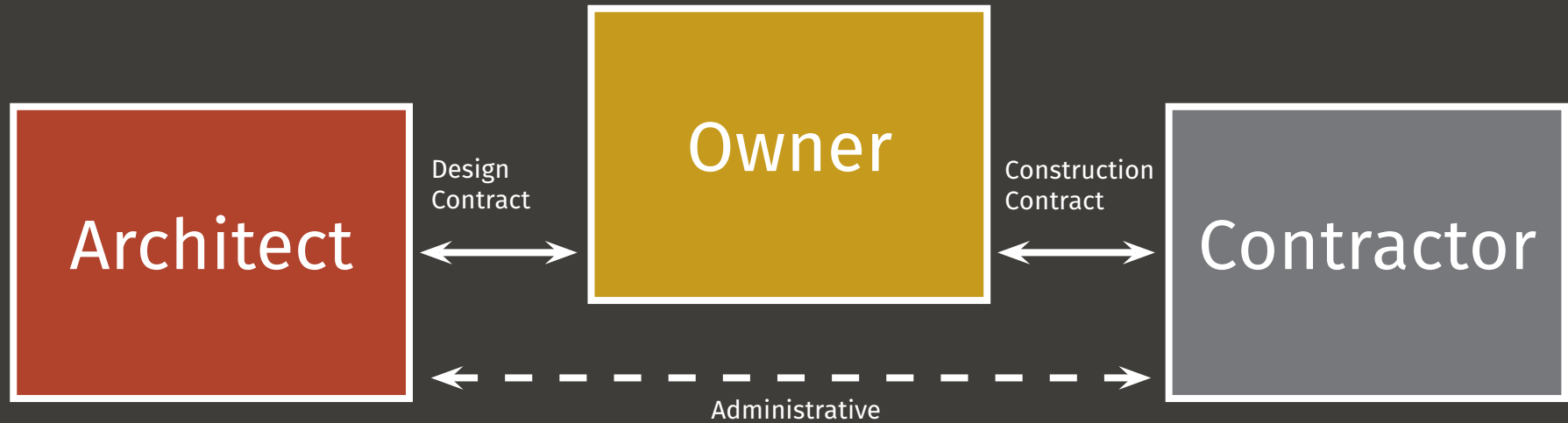
Owner

Contractor

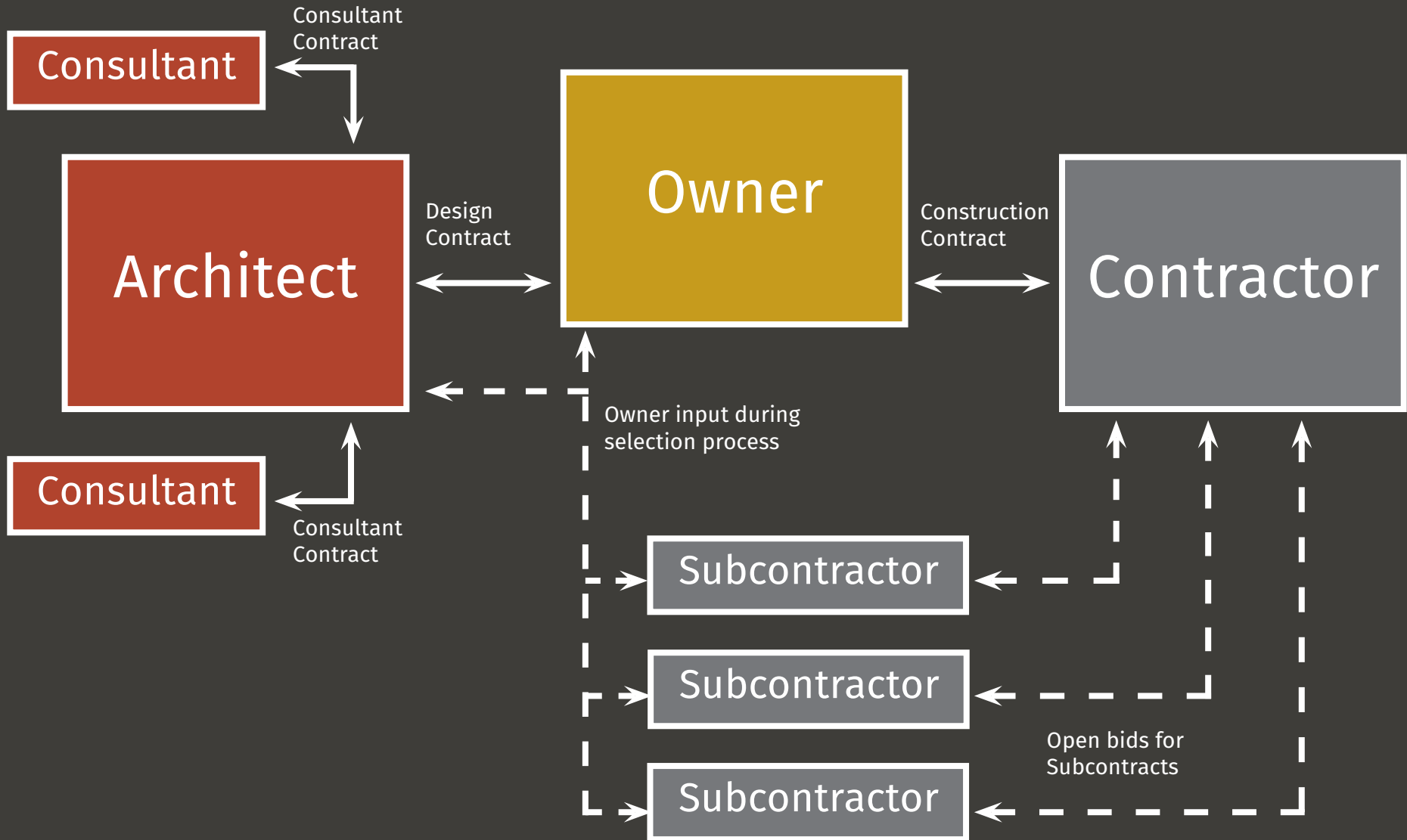
Design-Negotiate-Build (D-N-B)



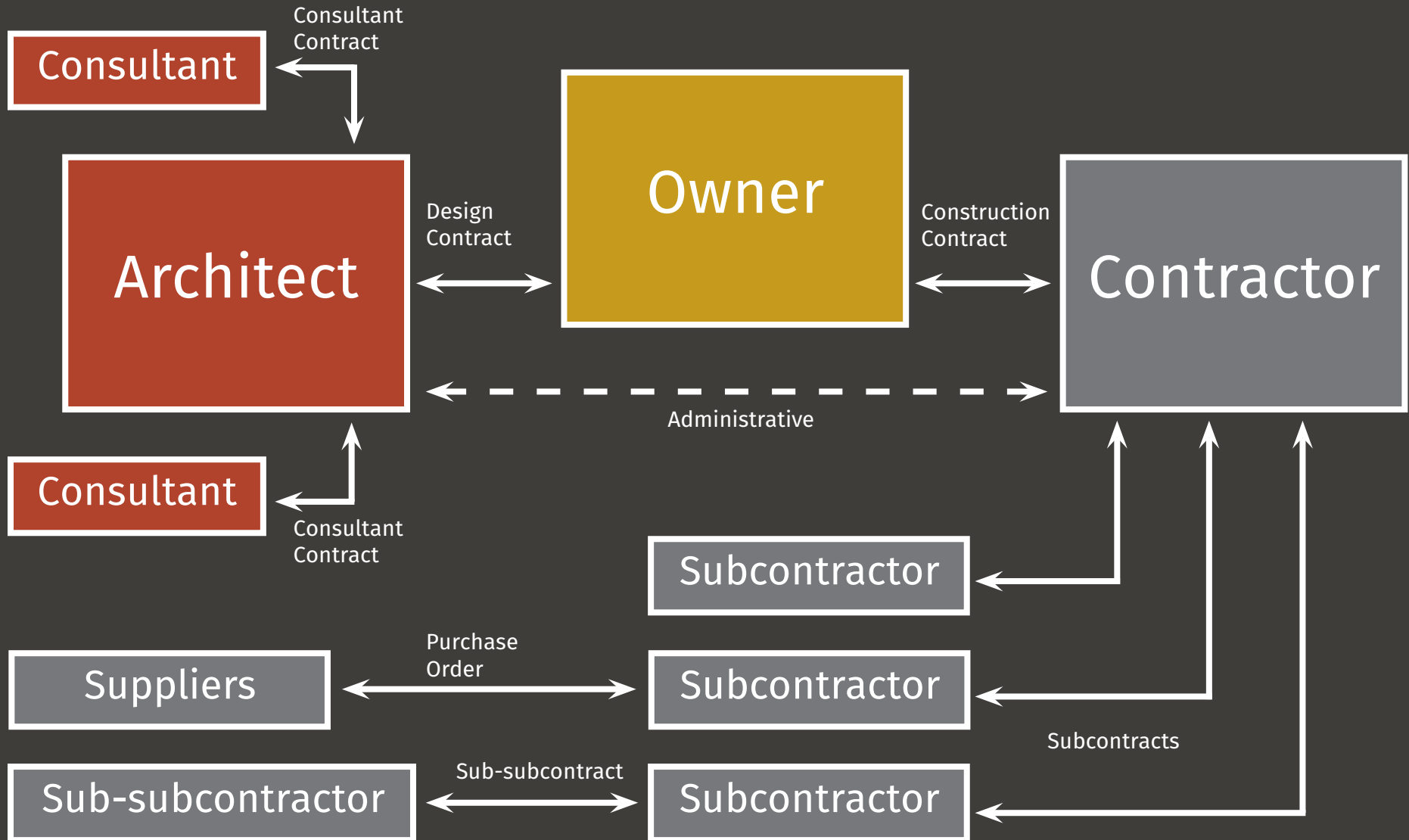
Design-Negotiate-Build (D-N-B)



Design-Negotiate-Build (D-N-B)



Design-Negotiate-Build (D-N-B)

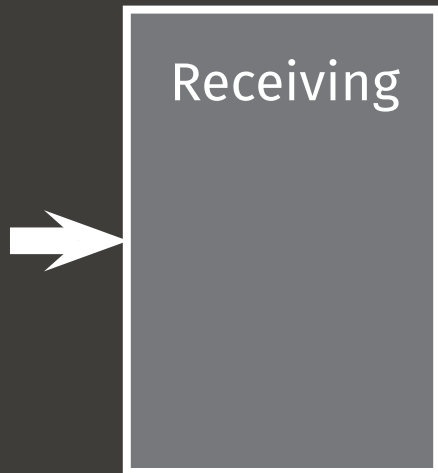


Design

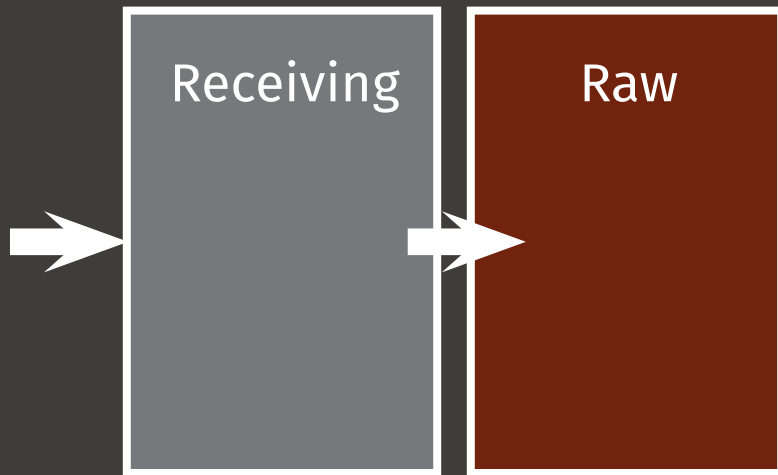
Design

Understanding Plant Layout

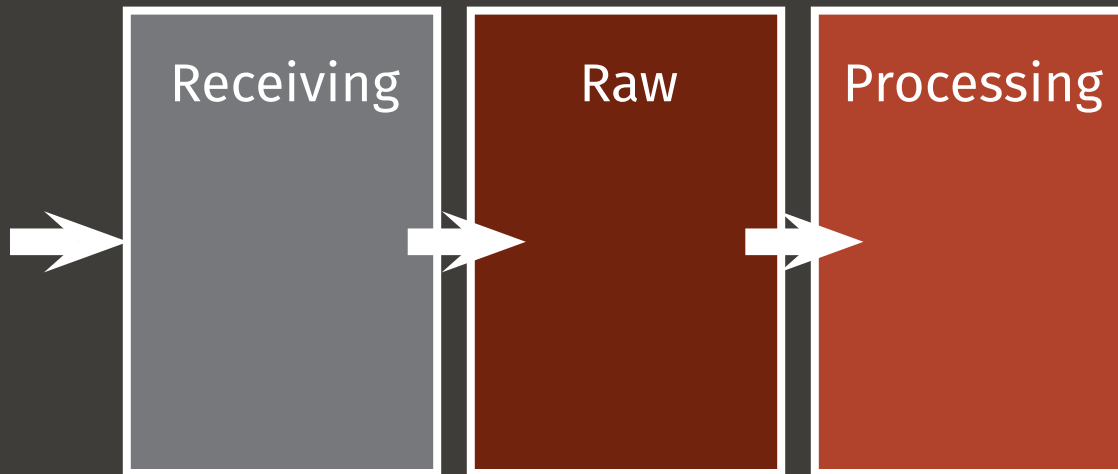
Planning Flow: Optimum Efficiency



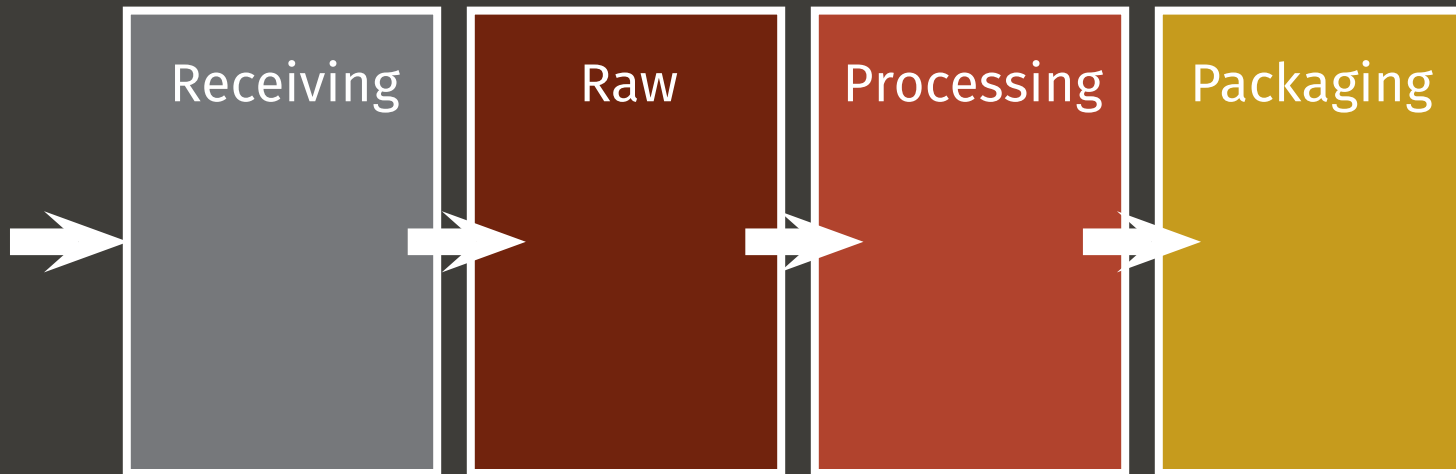
Planning Flow: Optimum Efficiency



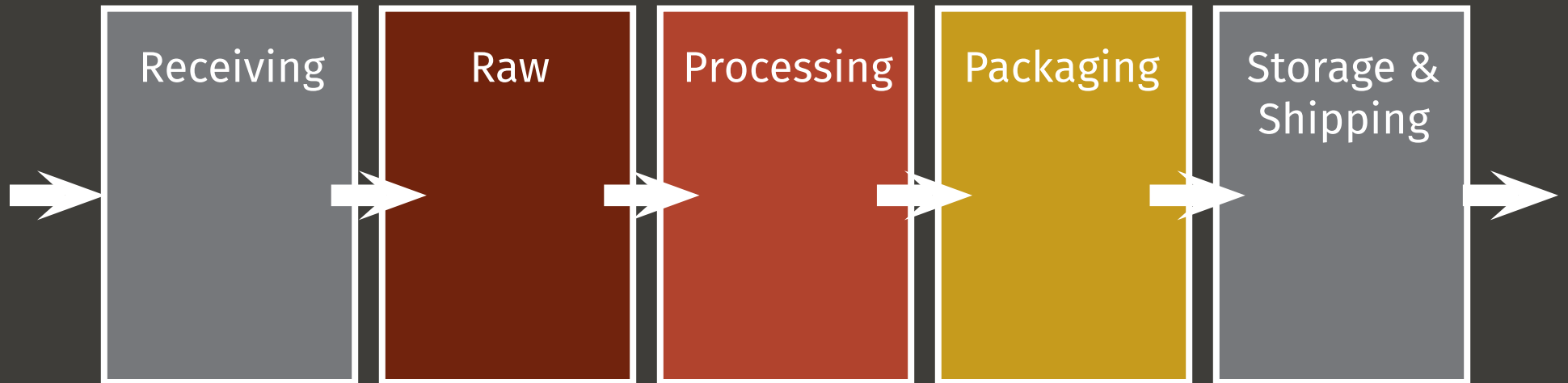
Planning Flow: Optimum Efficiency



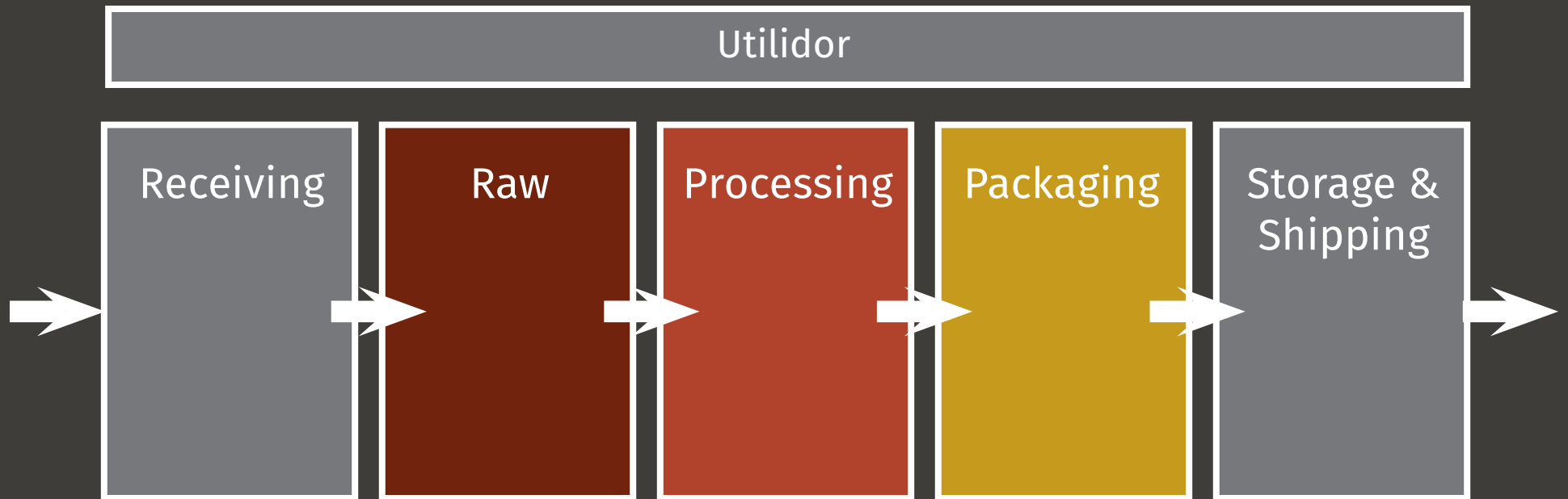
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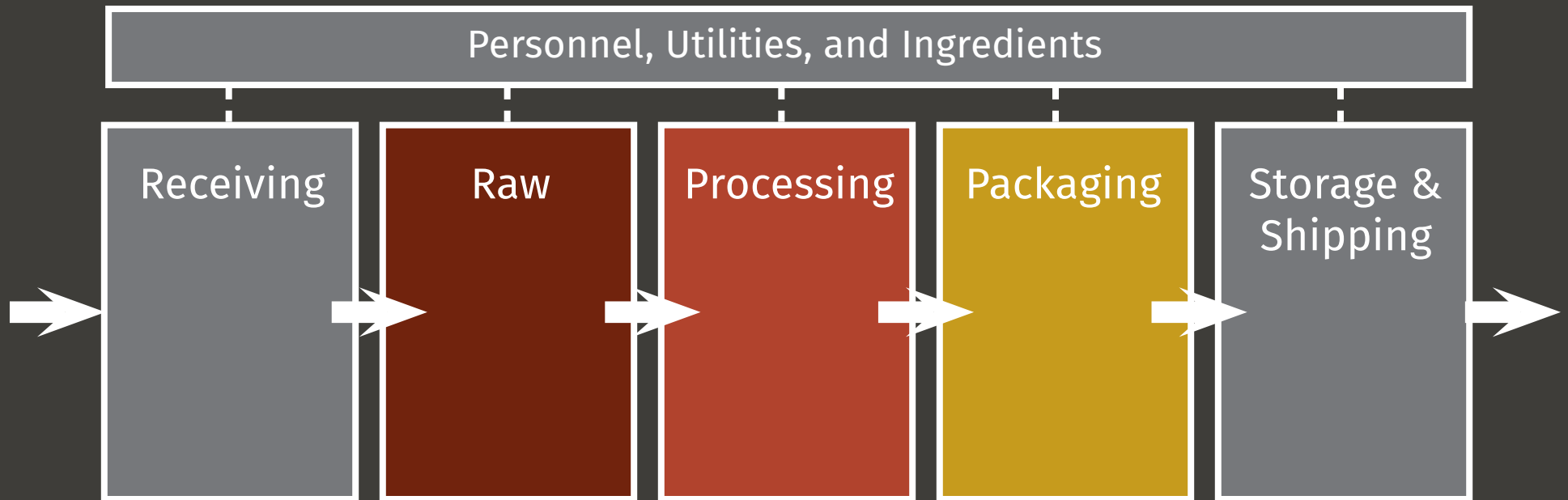
Planning Flow: Optimum Efficiency



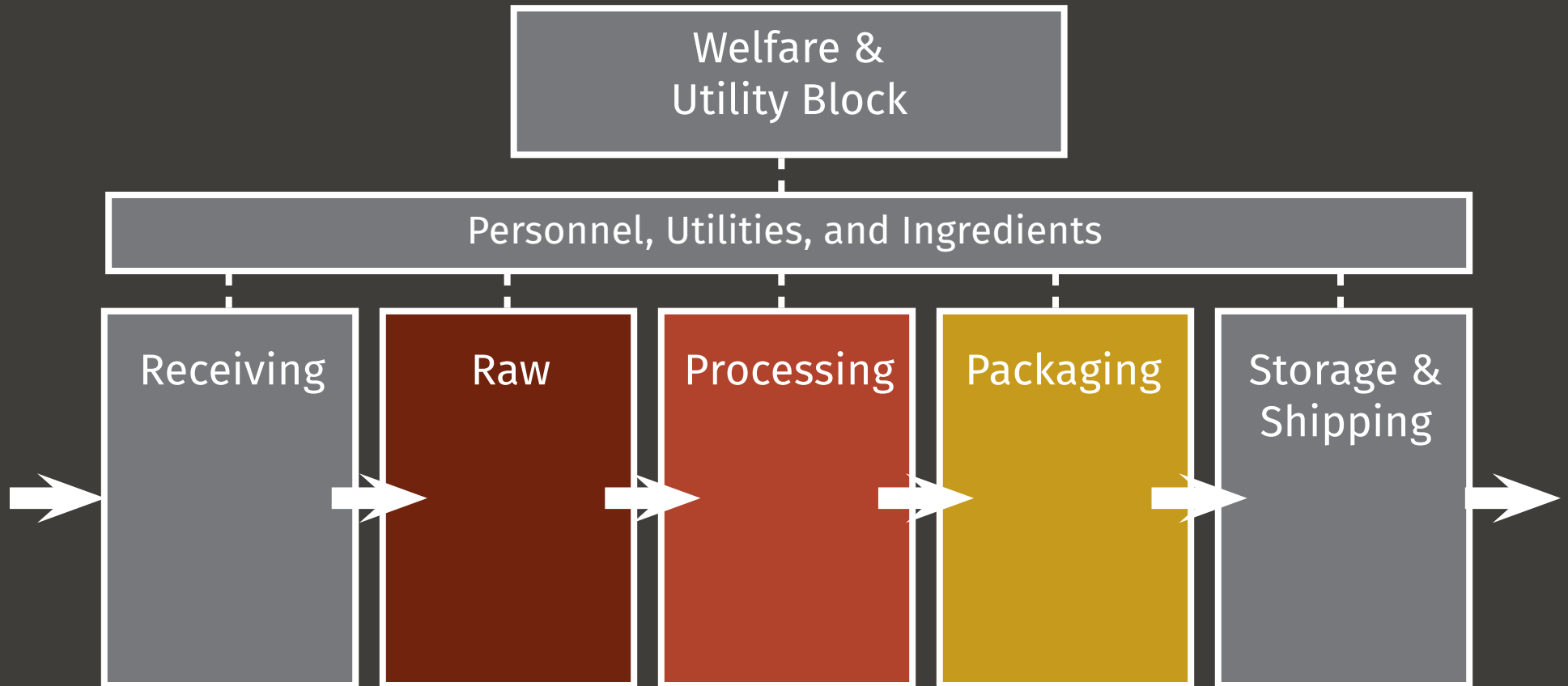
Planning Flow: Optimum Efficiency



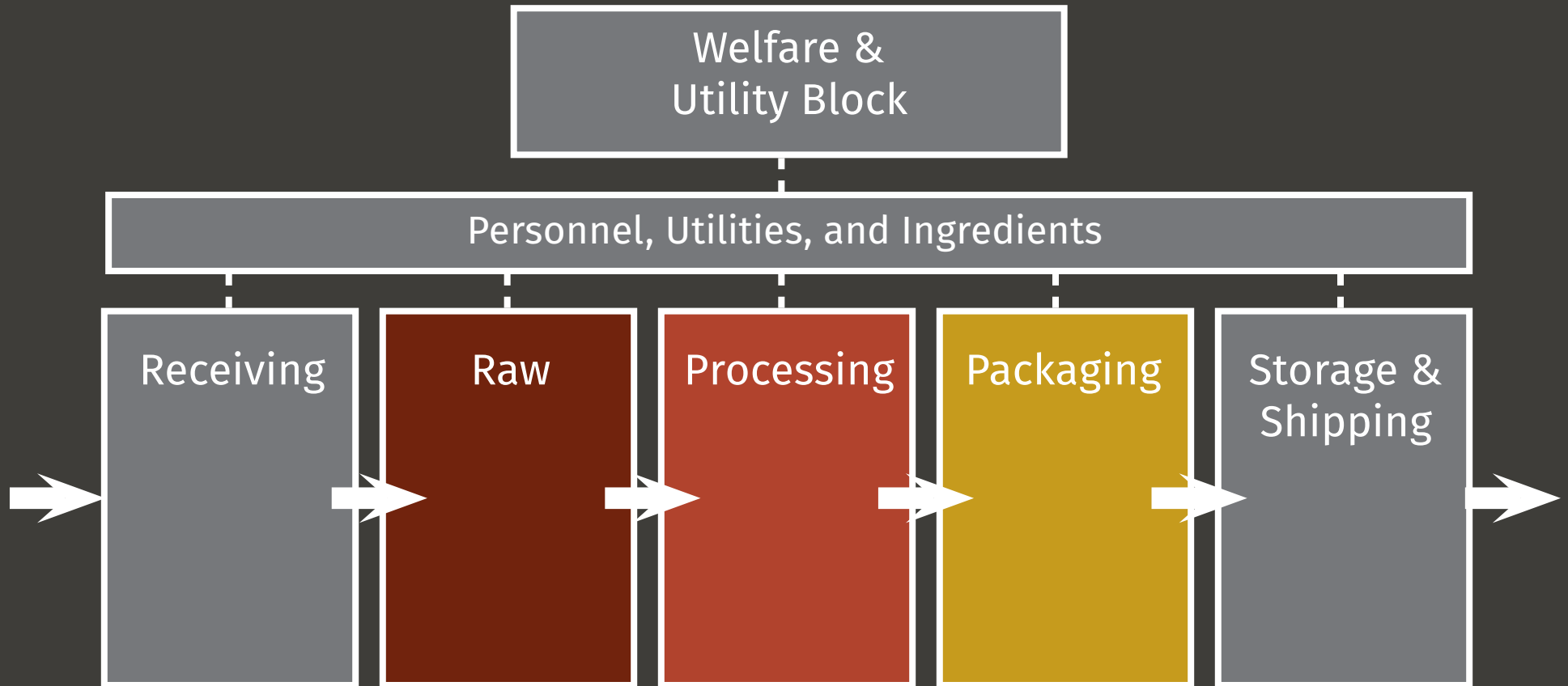
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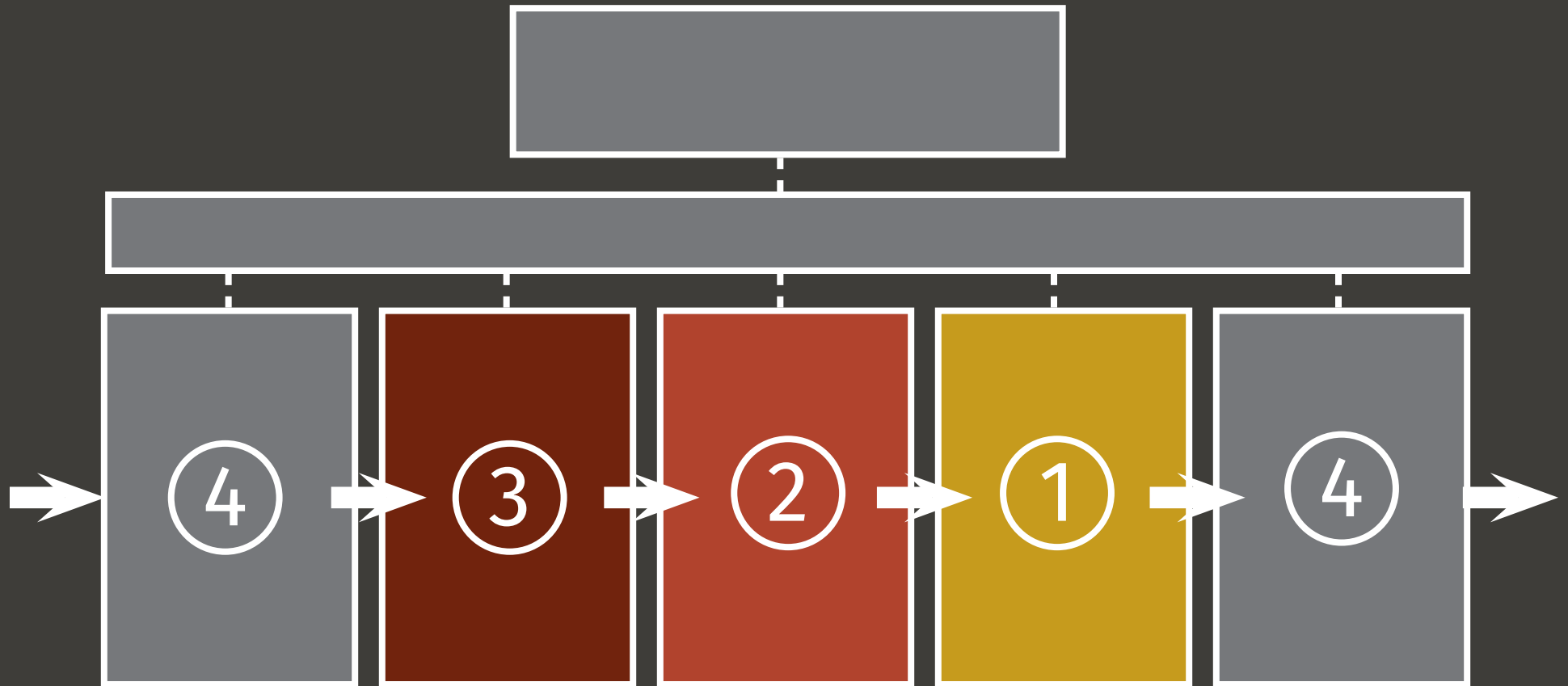


Planning Flow: Optimum Efficiency



What about optimum sanitation?

Planning Flow: Optimum Efficiency

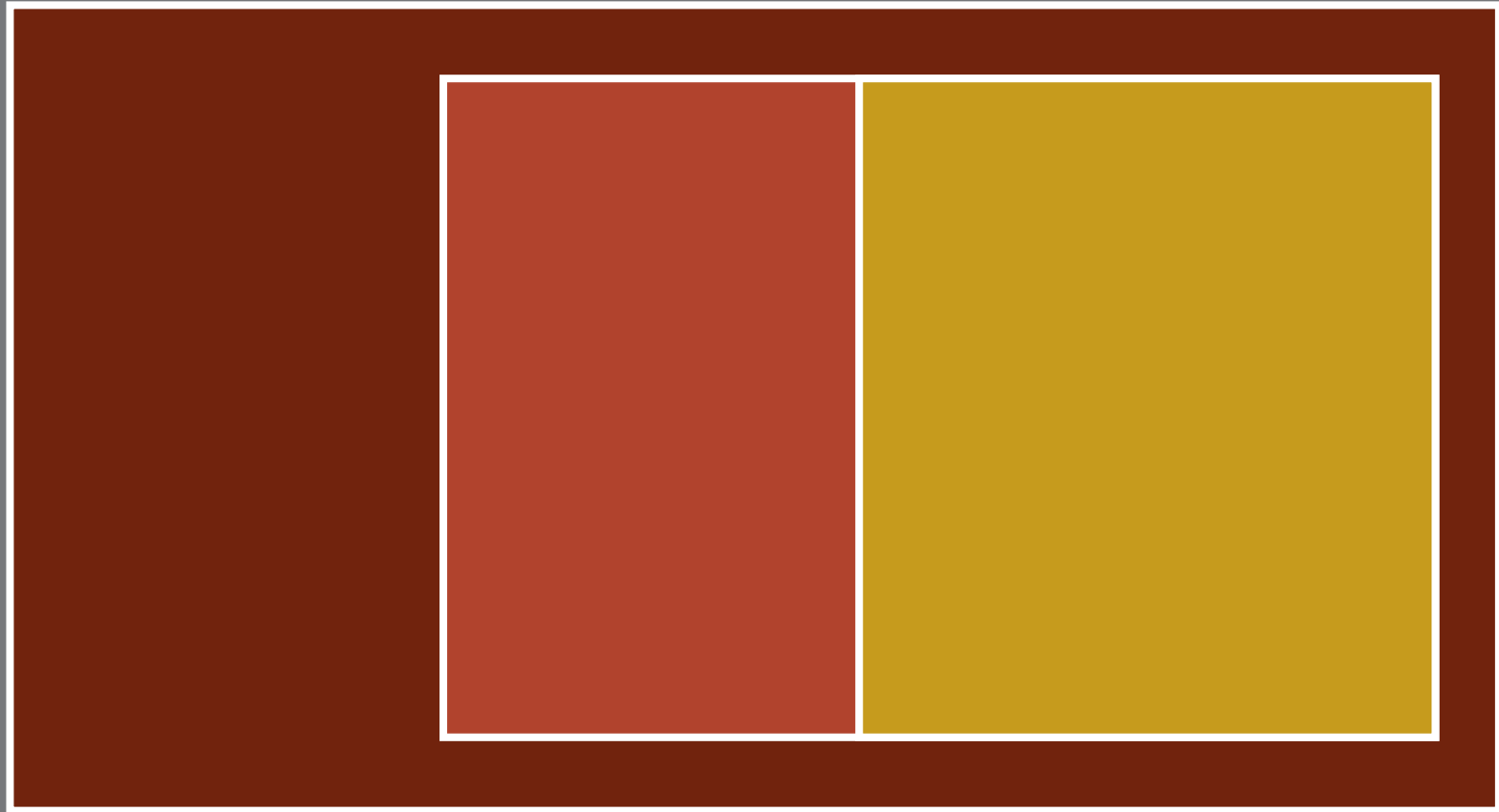


What about optimum sanitation?

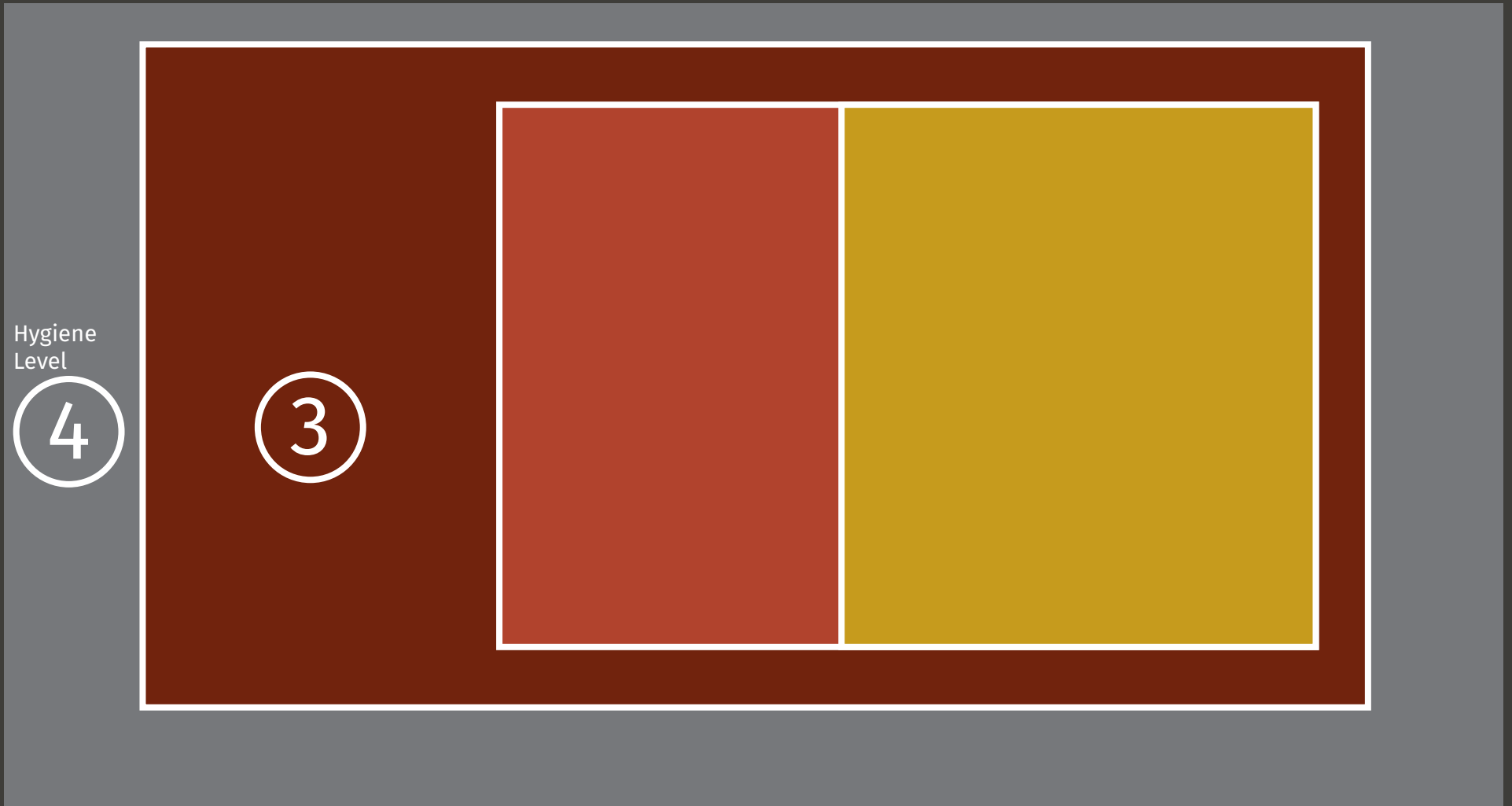
Hygiene Zones: Shell Model

Hygiene
Level

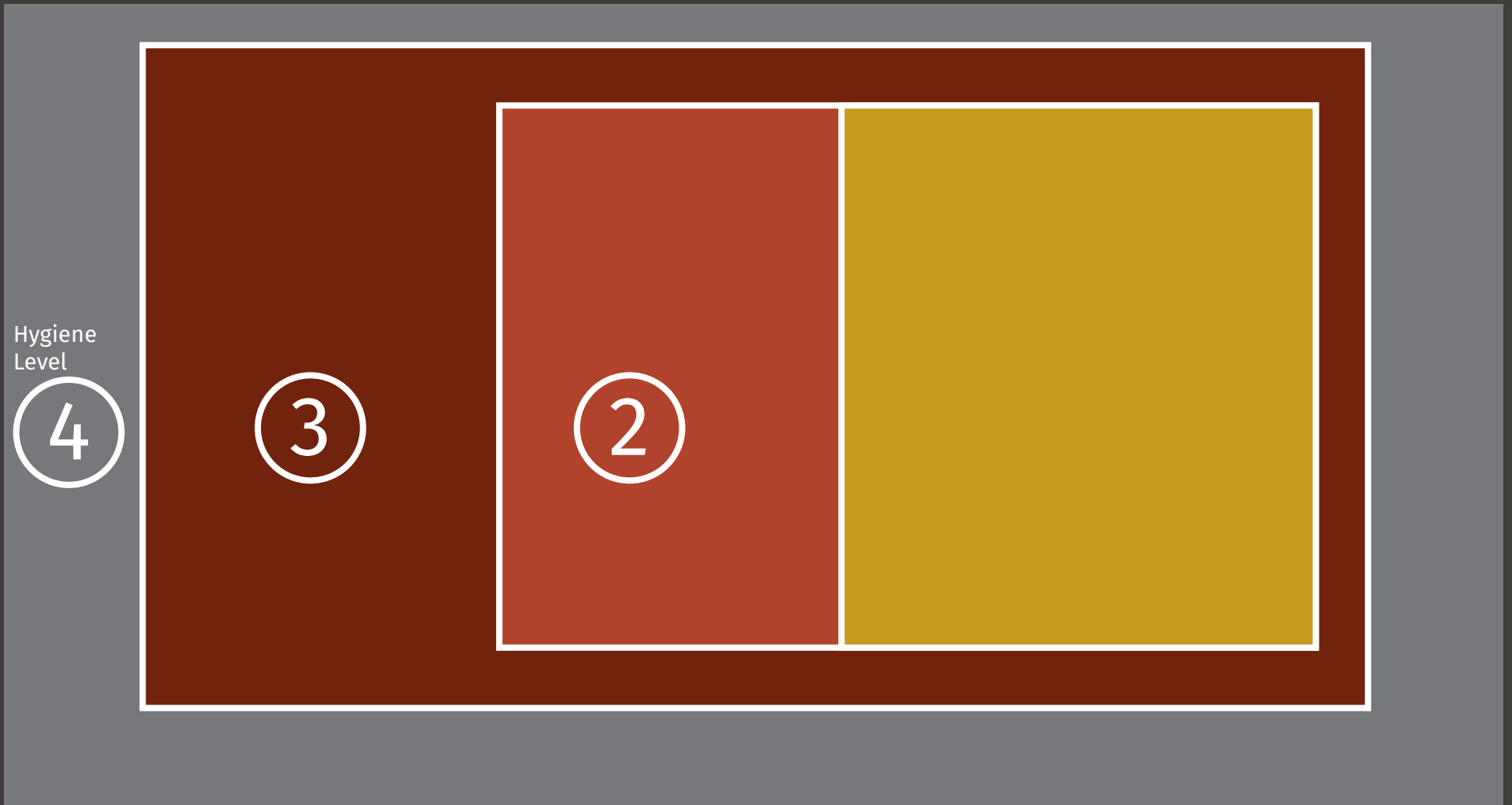
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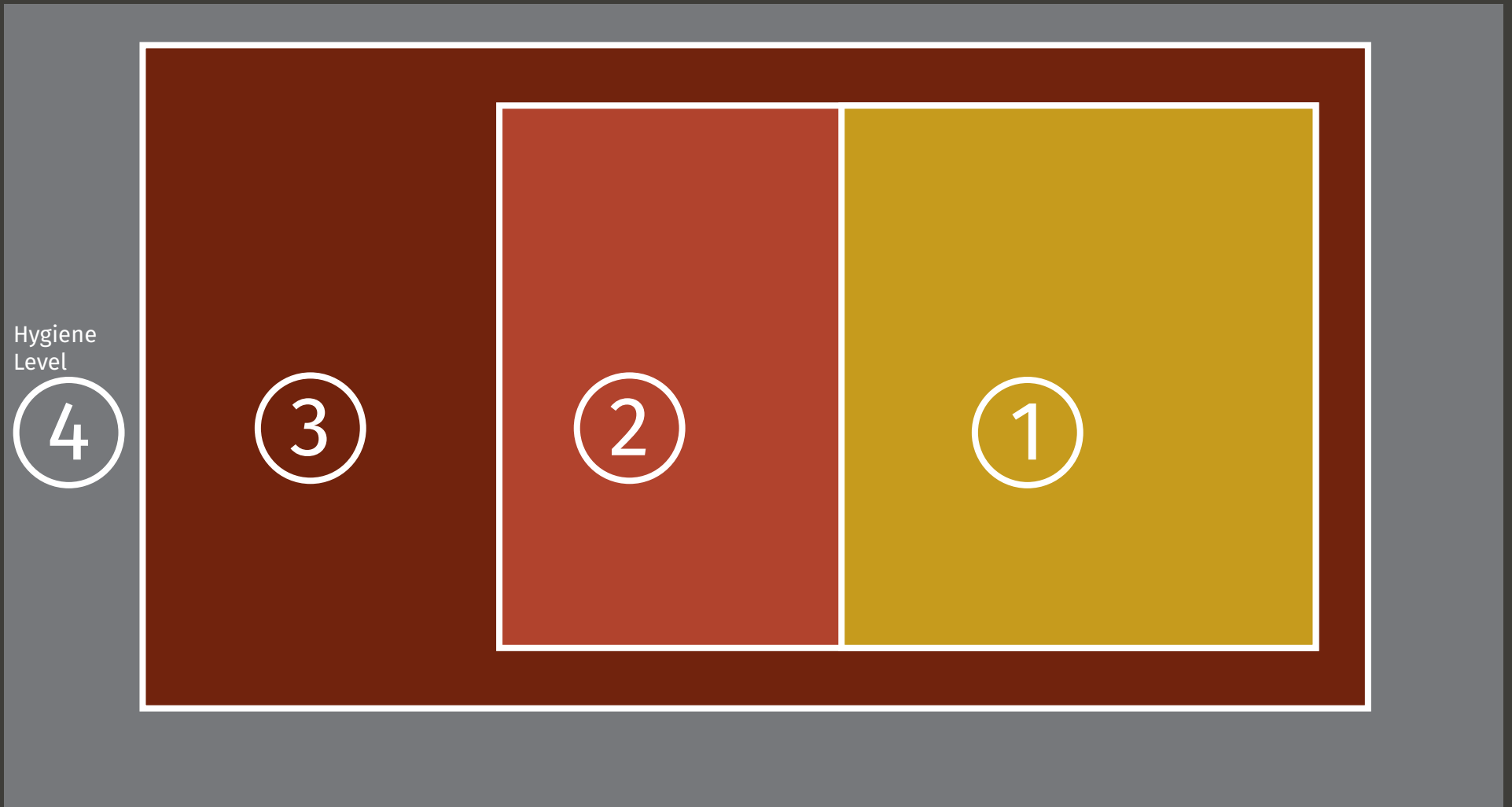
Hygiene Zones: Shell Model



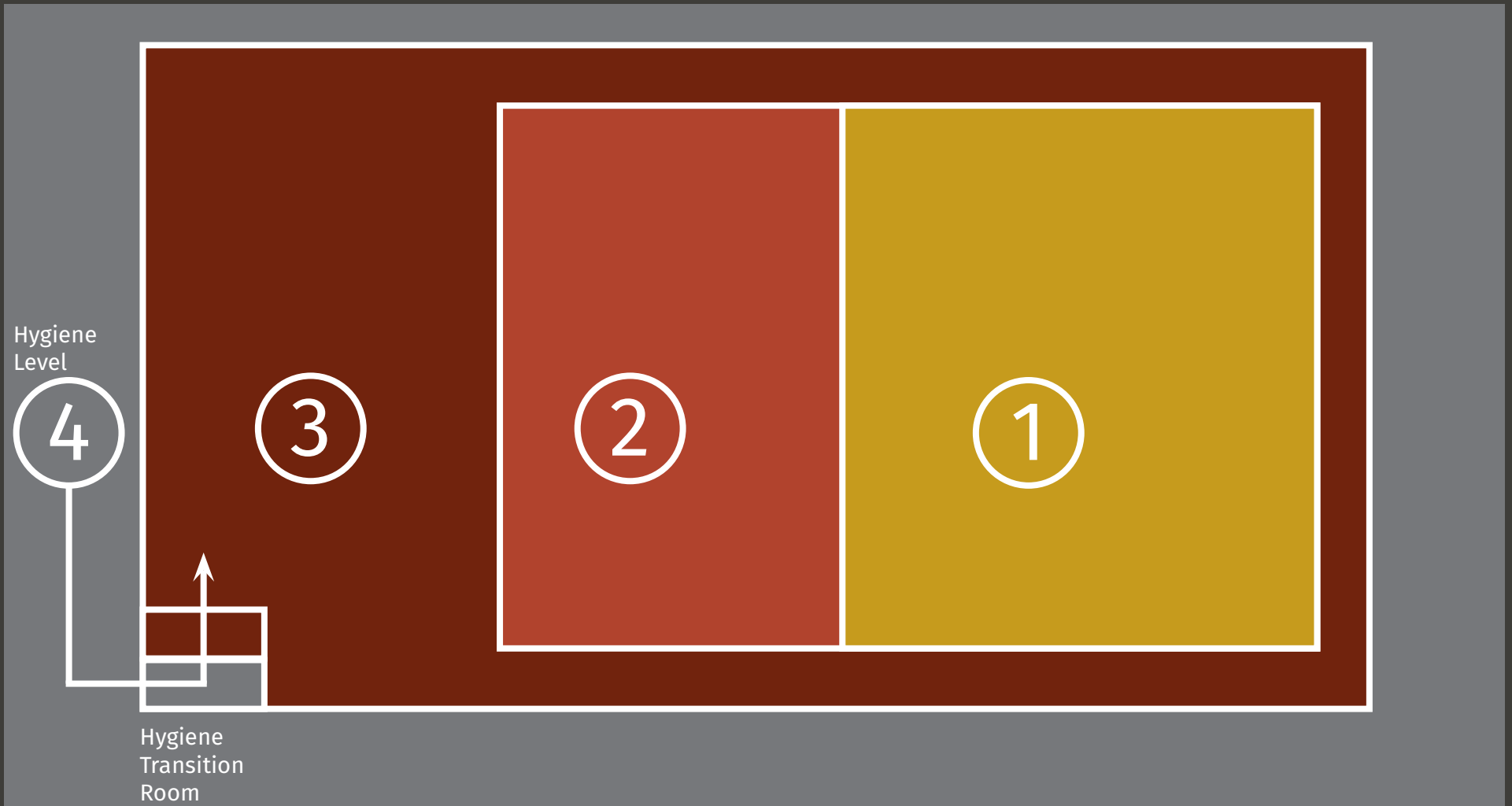
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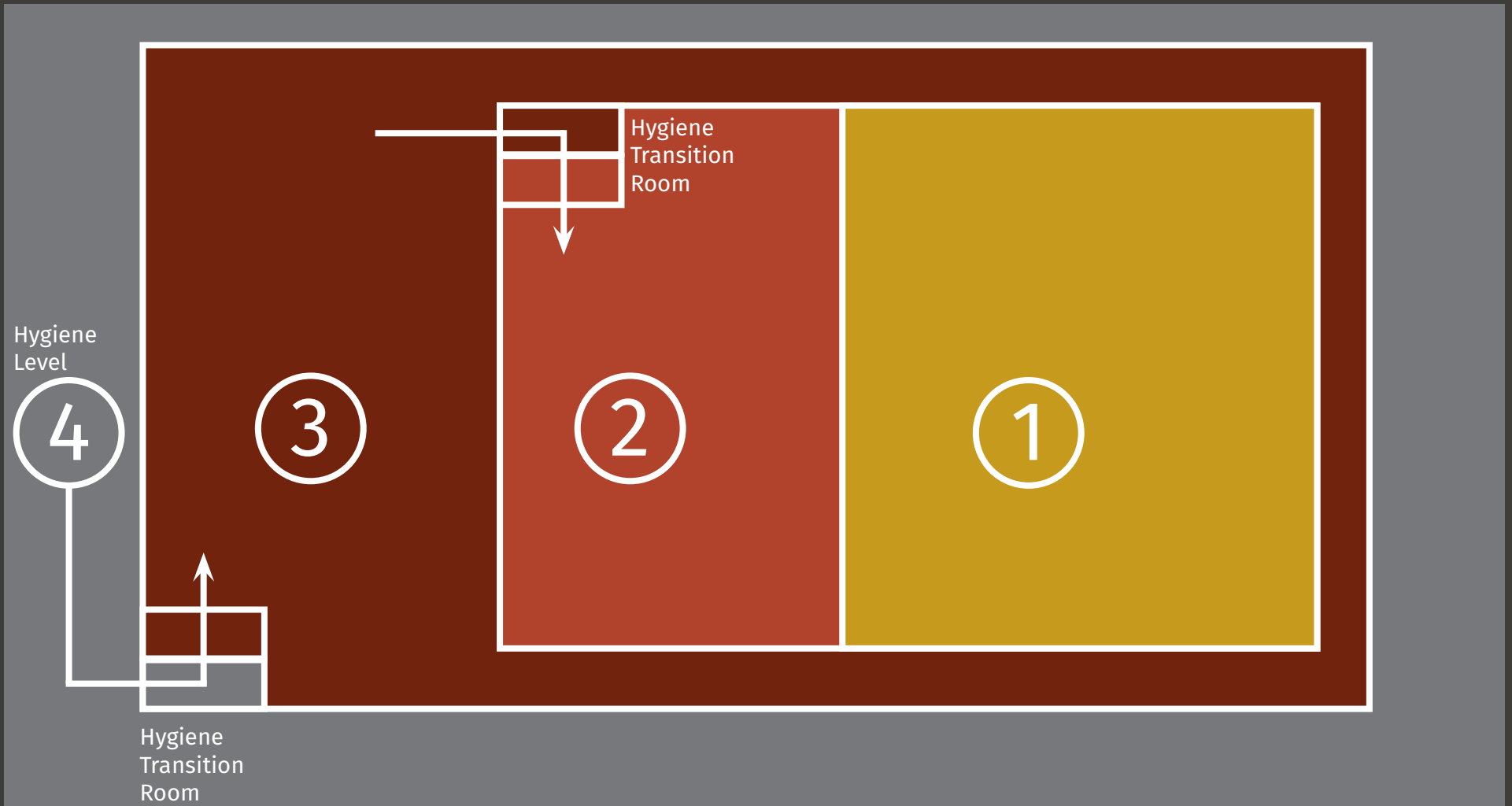
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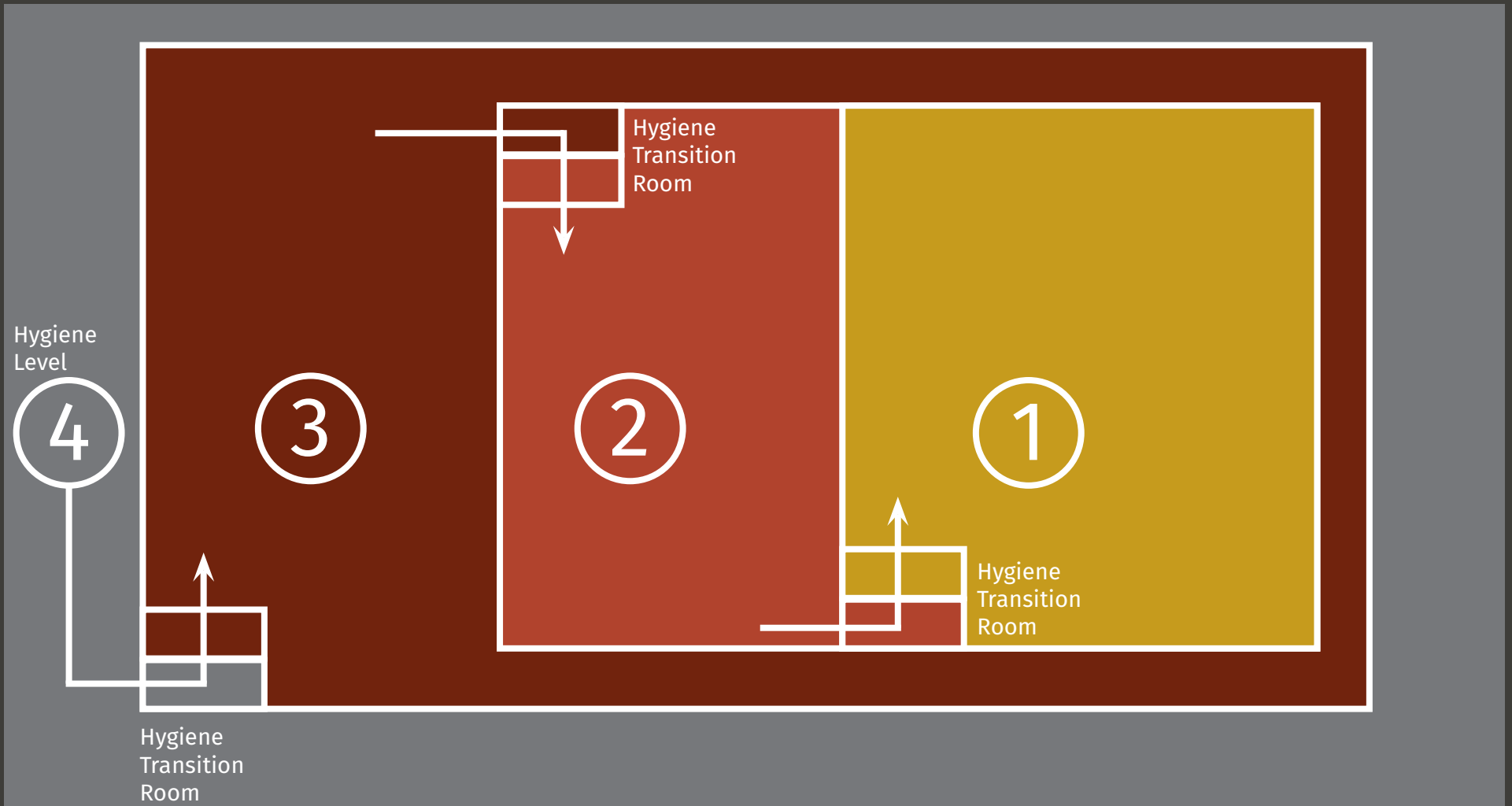
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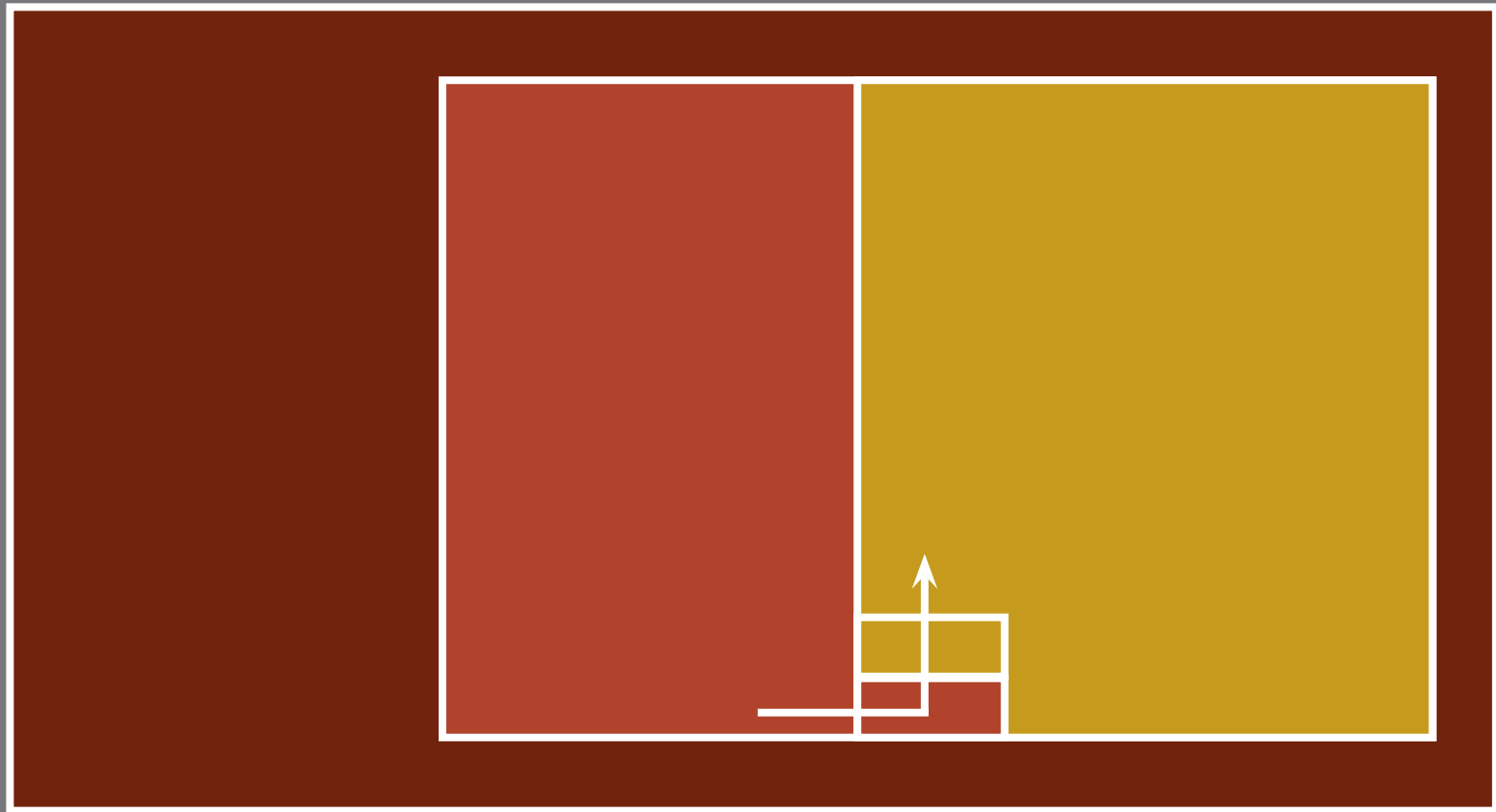
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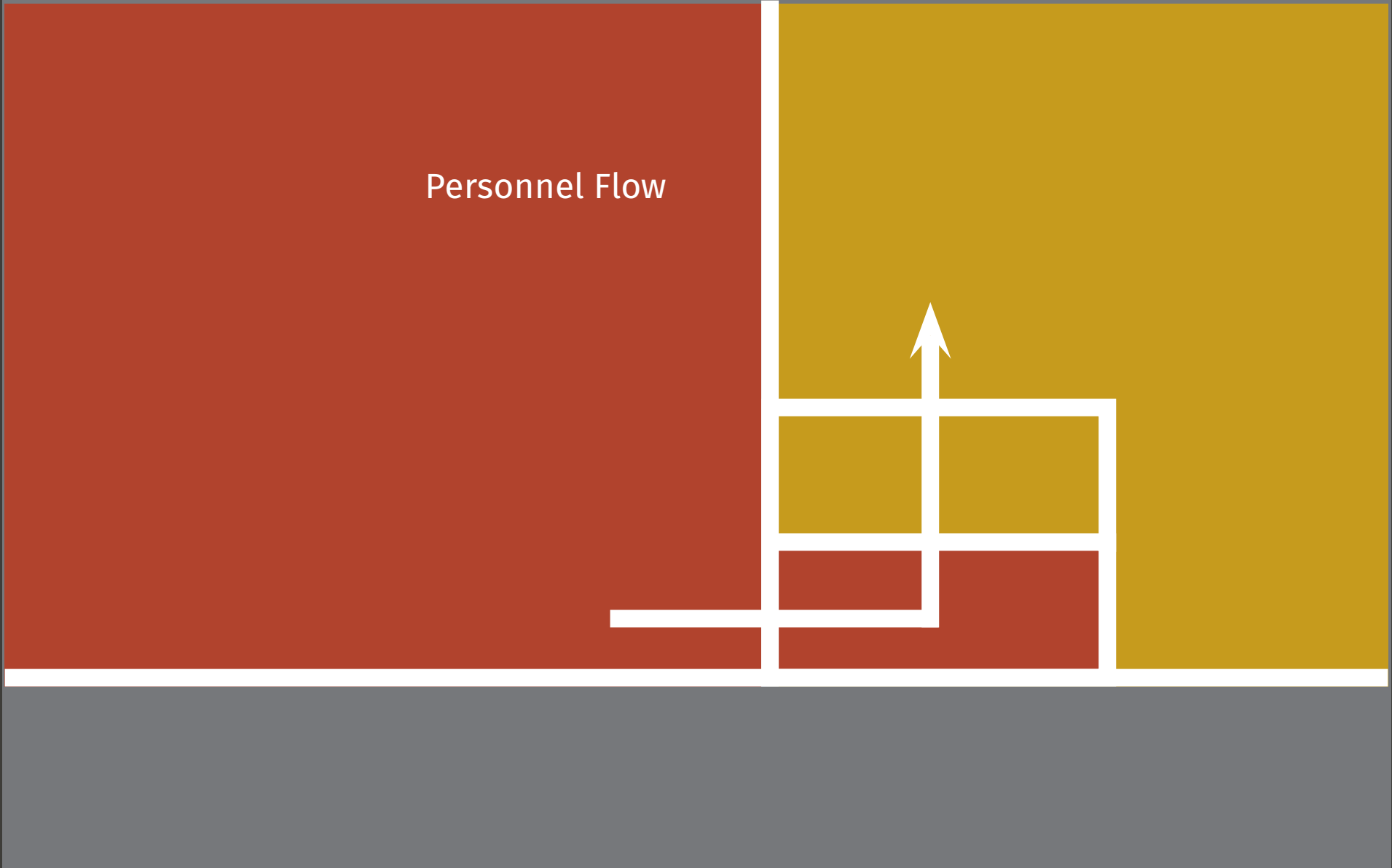
Hygiene Transition Room



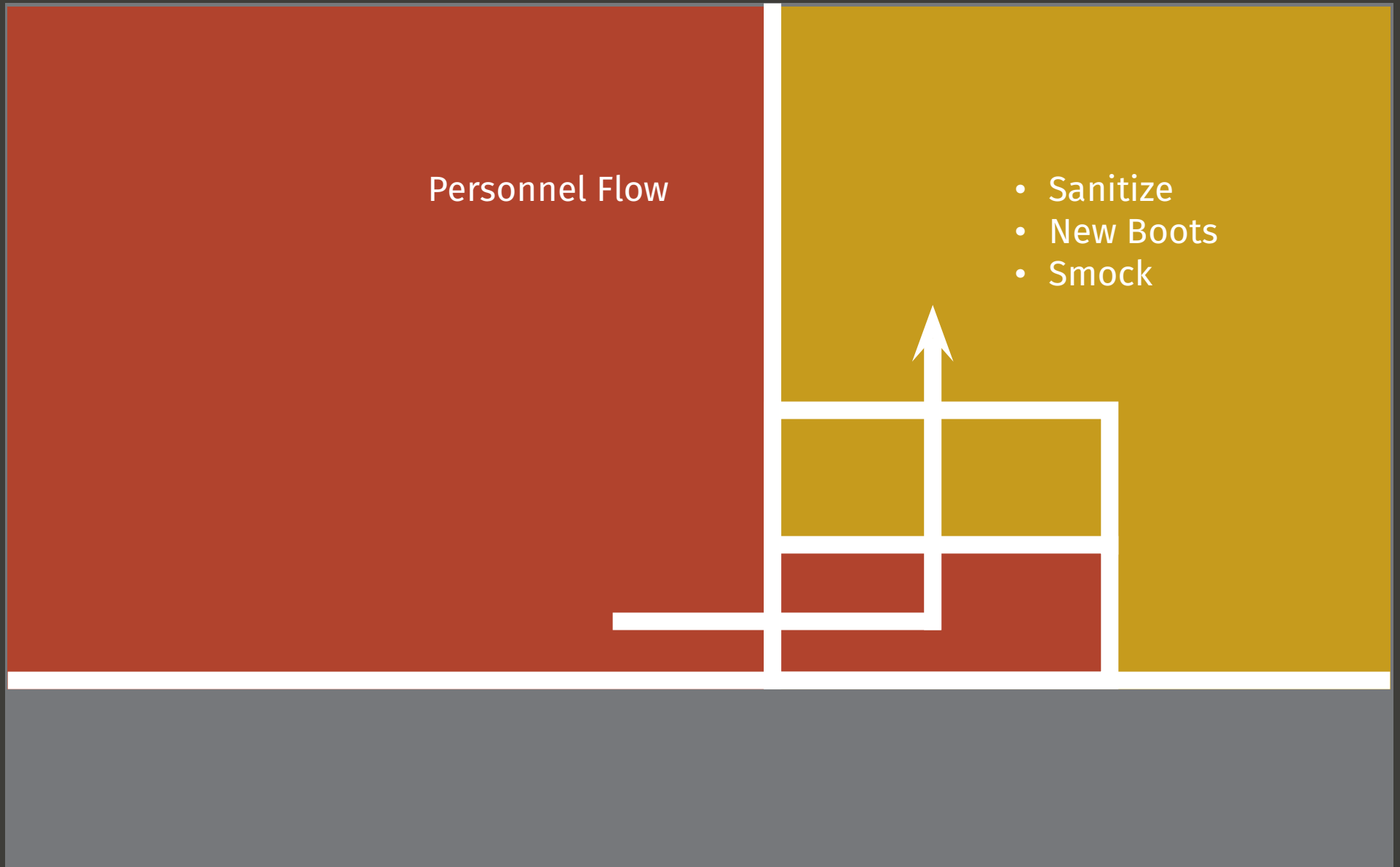
Hygiene Transition Room



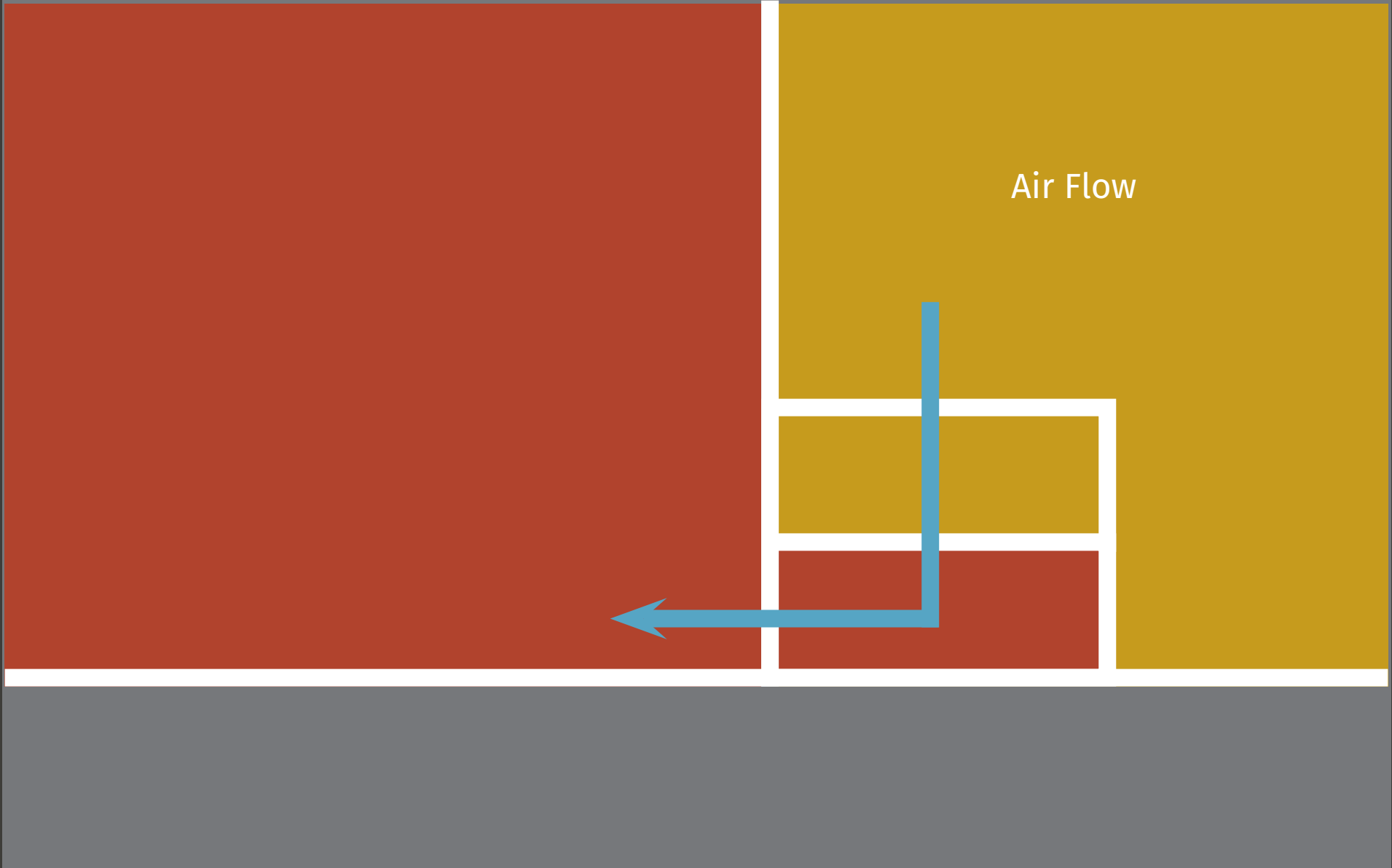
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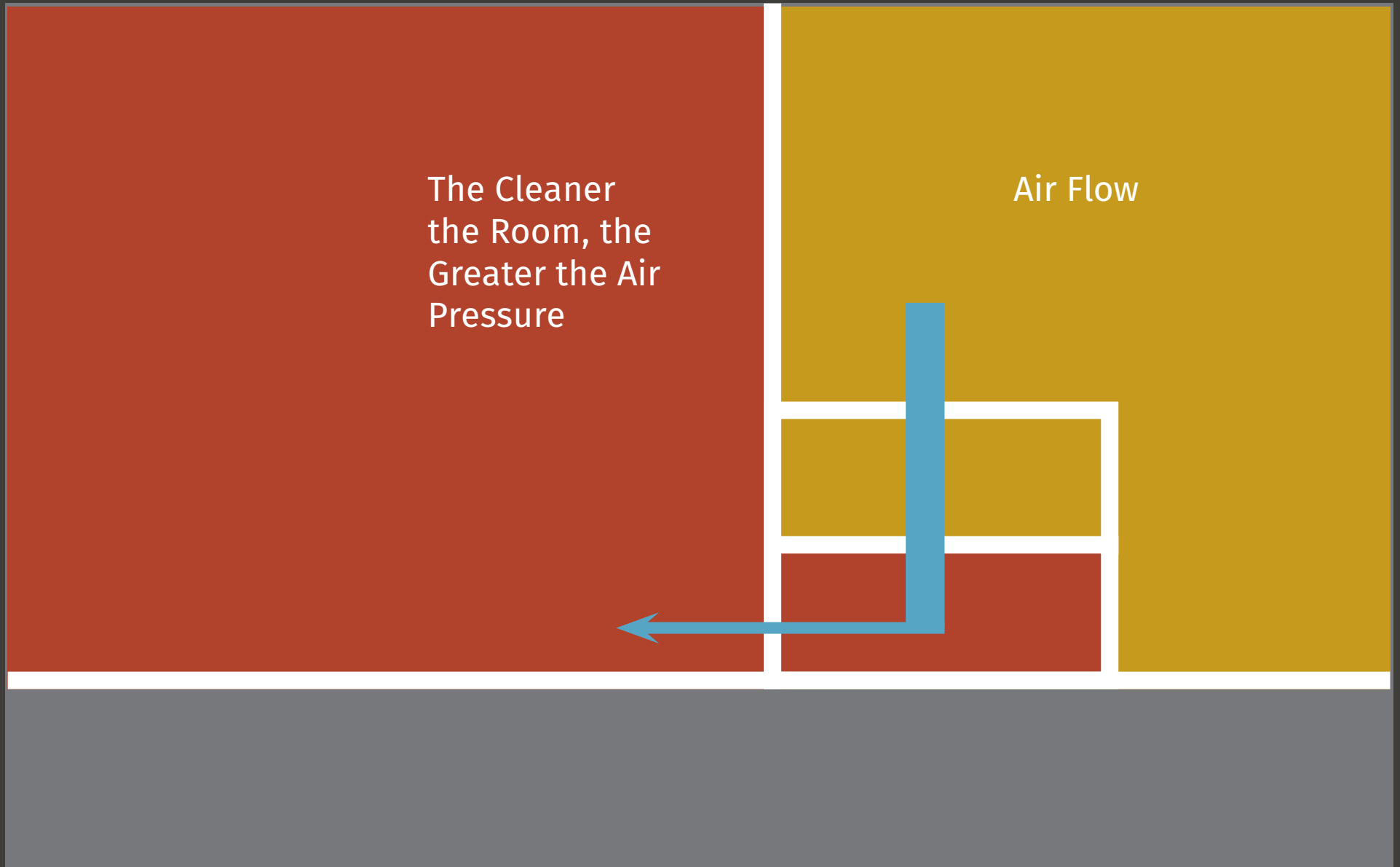
Hygiene Transition Room



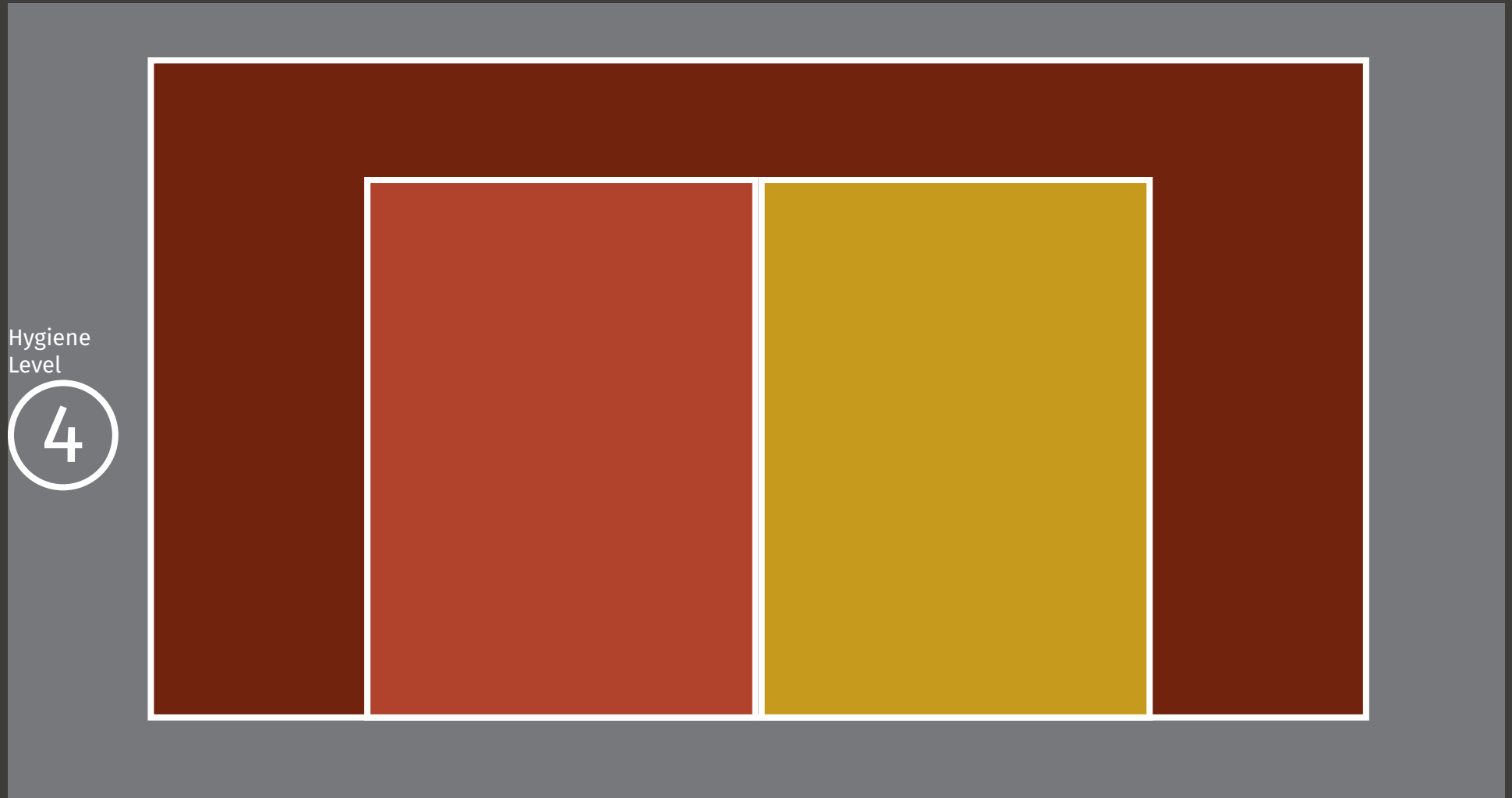
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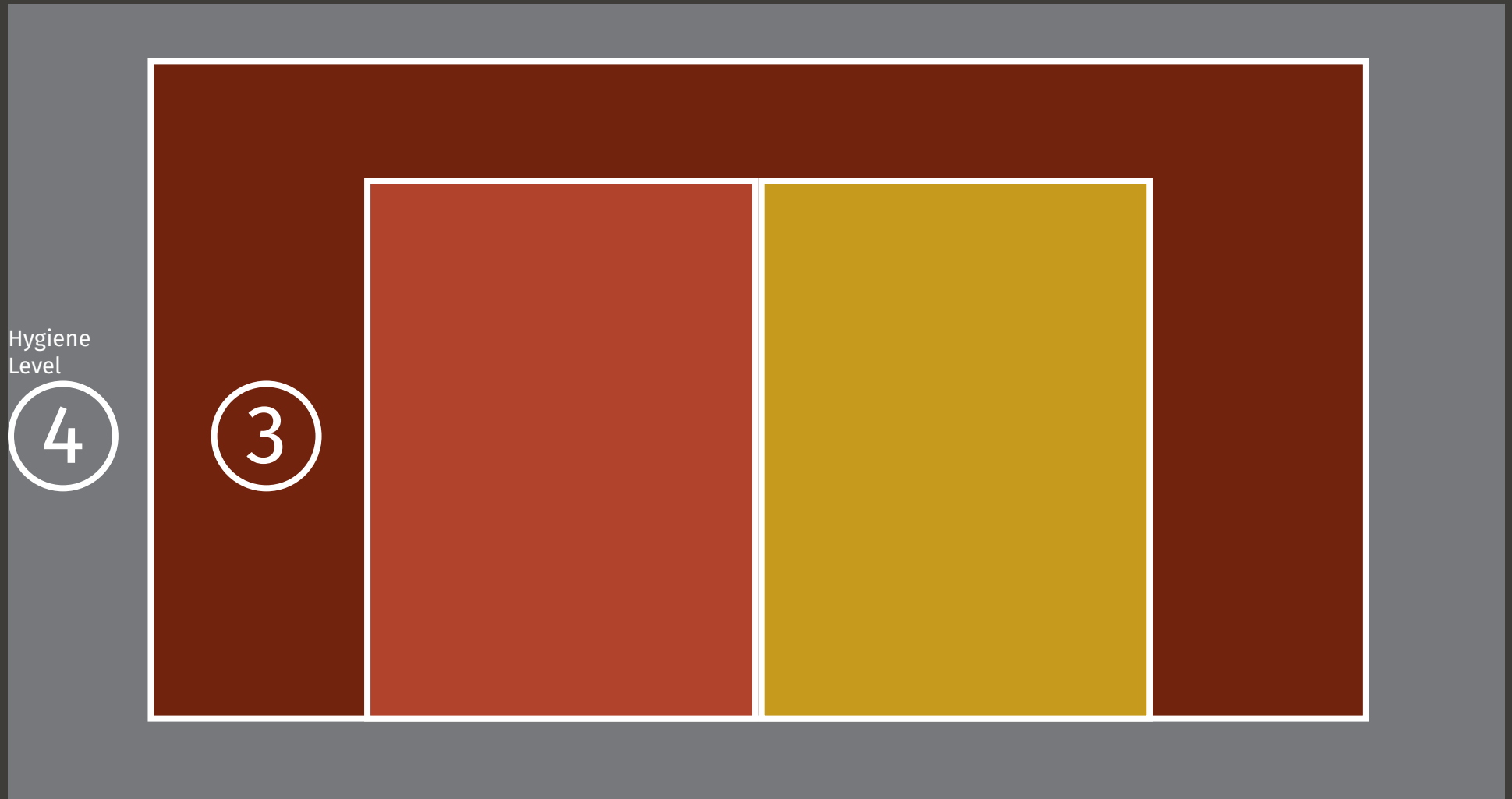
Hygiene Transition Room



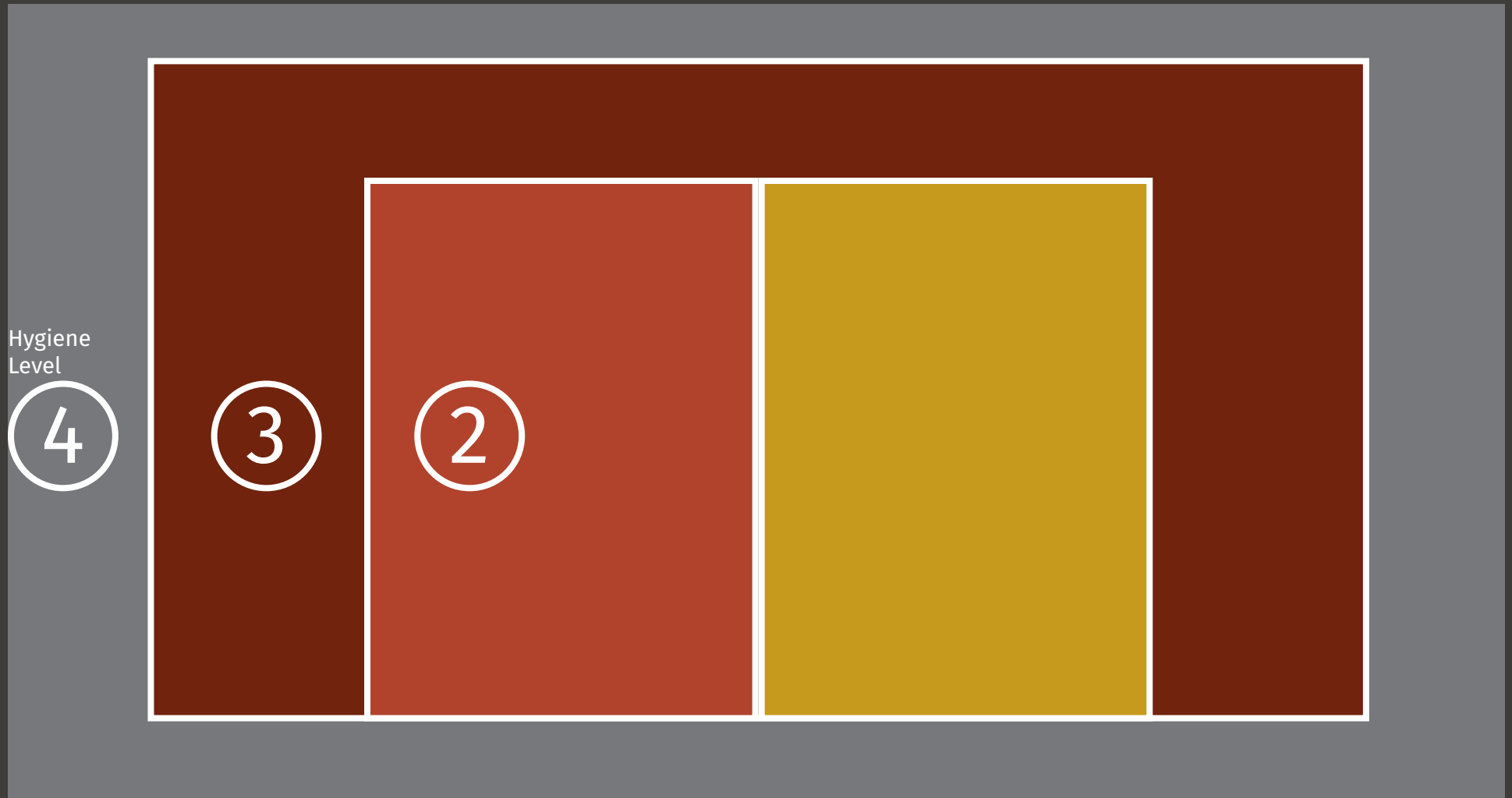
Hygiene Zones: Branch Model



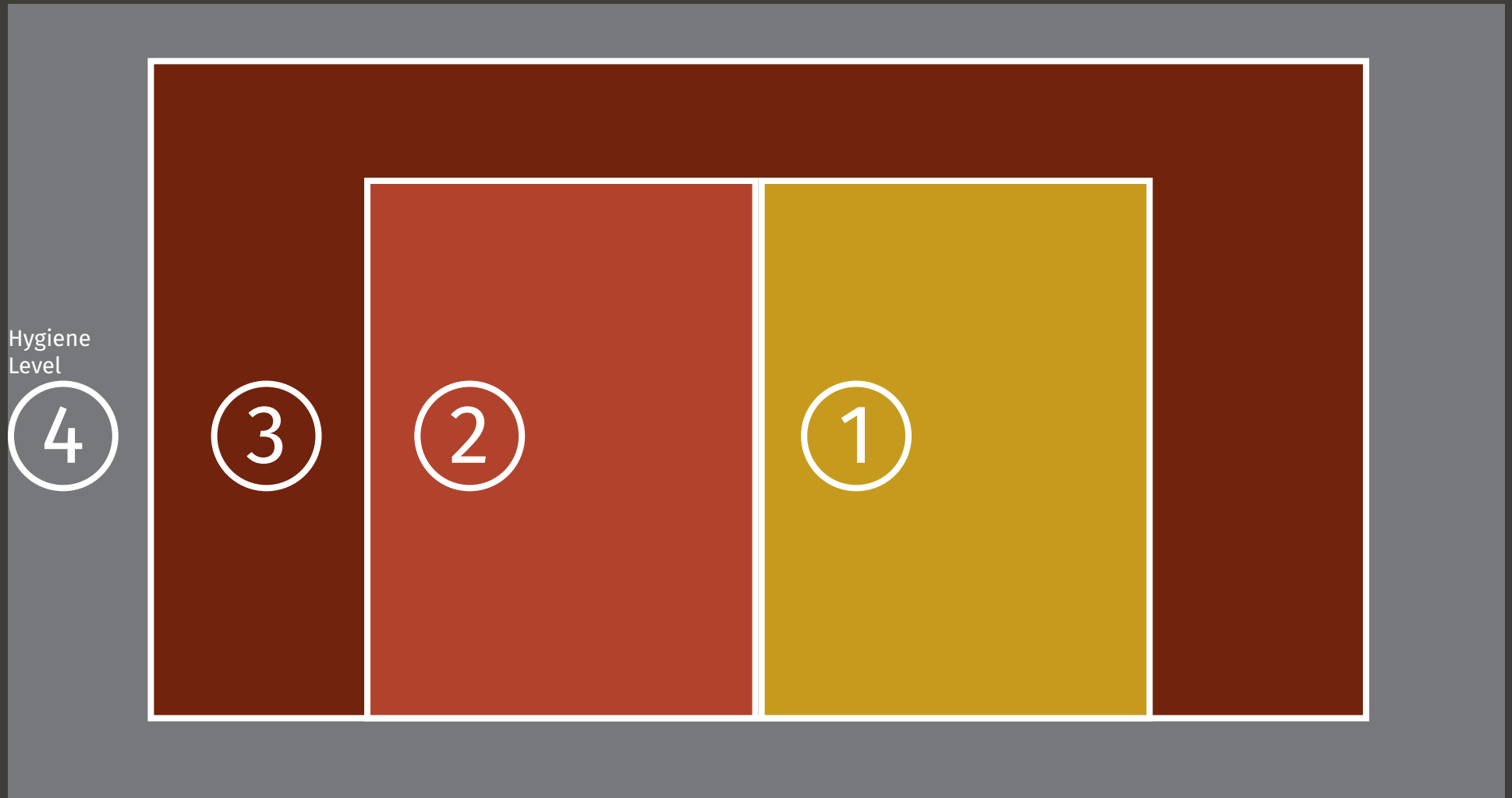
Hygiene Zones: Branch Model



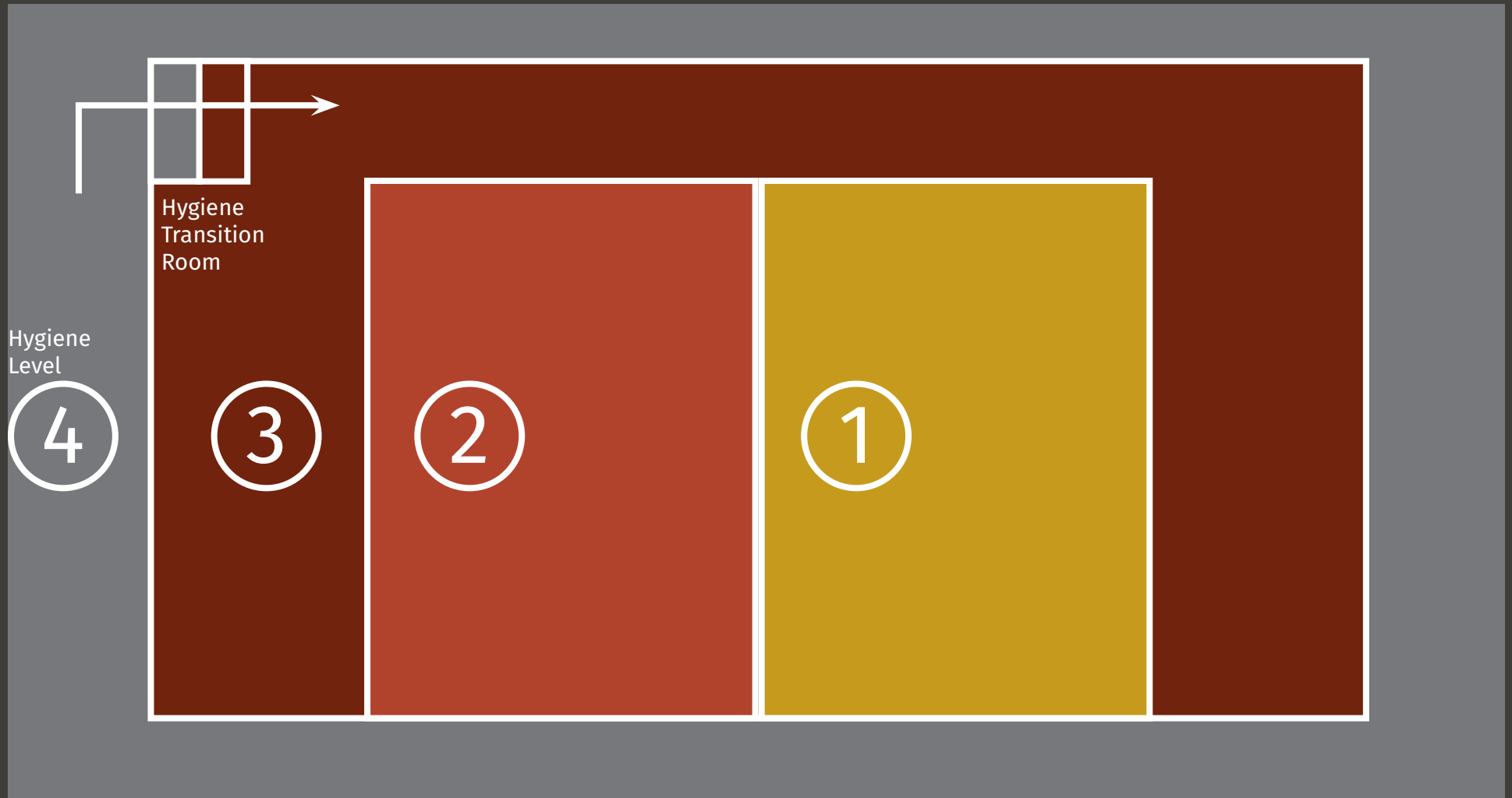
Hygiene Zones: Branch Model



Hygiene Zones: Branch Model



Hygiene Zones: Branch Model



Other Considerations

- Hygienic Finishes
- Hygienic Detailing
- Ease of Maintenance
- Cleanability

Execution

Execution

Promoting and Ensuring Collaboration

Promote Mutual Goals

- Clearly defined scope
- Proper budget with consistent updates
- Adherence to schedule

Focus on Collaboration

- Building Information Modeling (BIM)
- Executive Meetings
- Phased construction

Case Study

Bel Brands USA - Brookings, SD

Bel Brands USA
Brookings, SD

Bel Brands USA
Brookings, SD

Questions?

Keys to a Successful Project

Planning, Design, and Execution

Thank You