

ALTERNATIVE DELIVERY: BEYOND DESIGN-BUILD

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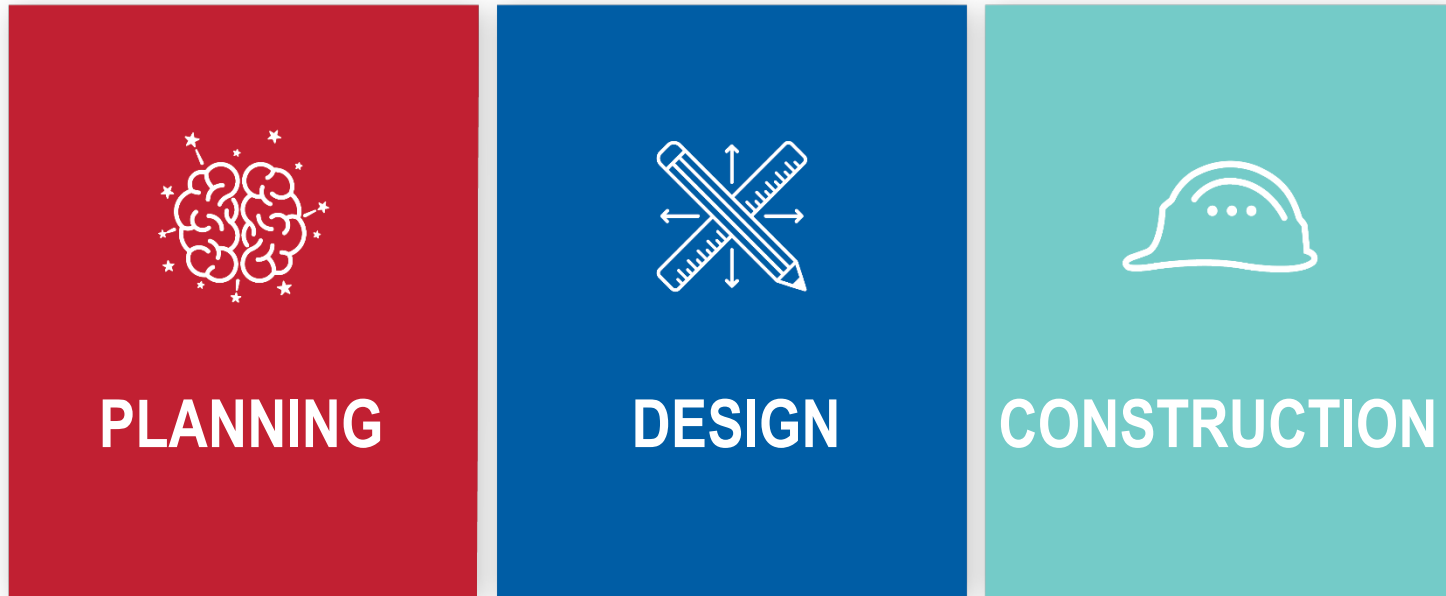
Steve Davidson, PE & William Stringer, PE



AMERICAN
STRUCTUREPOINT
INC.

DESIGN-BUILD HISTORY

PROJECT DELIVERY IS A
COMPREHENSIVE PROCESS INCLUDING:

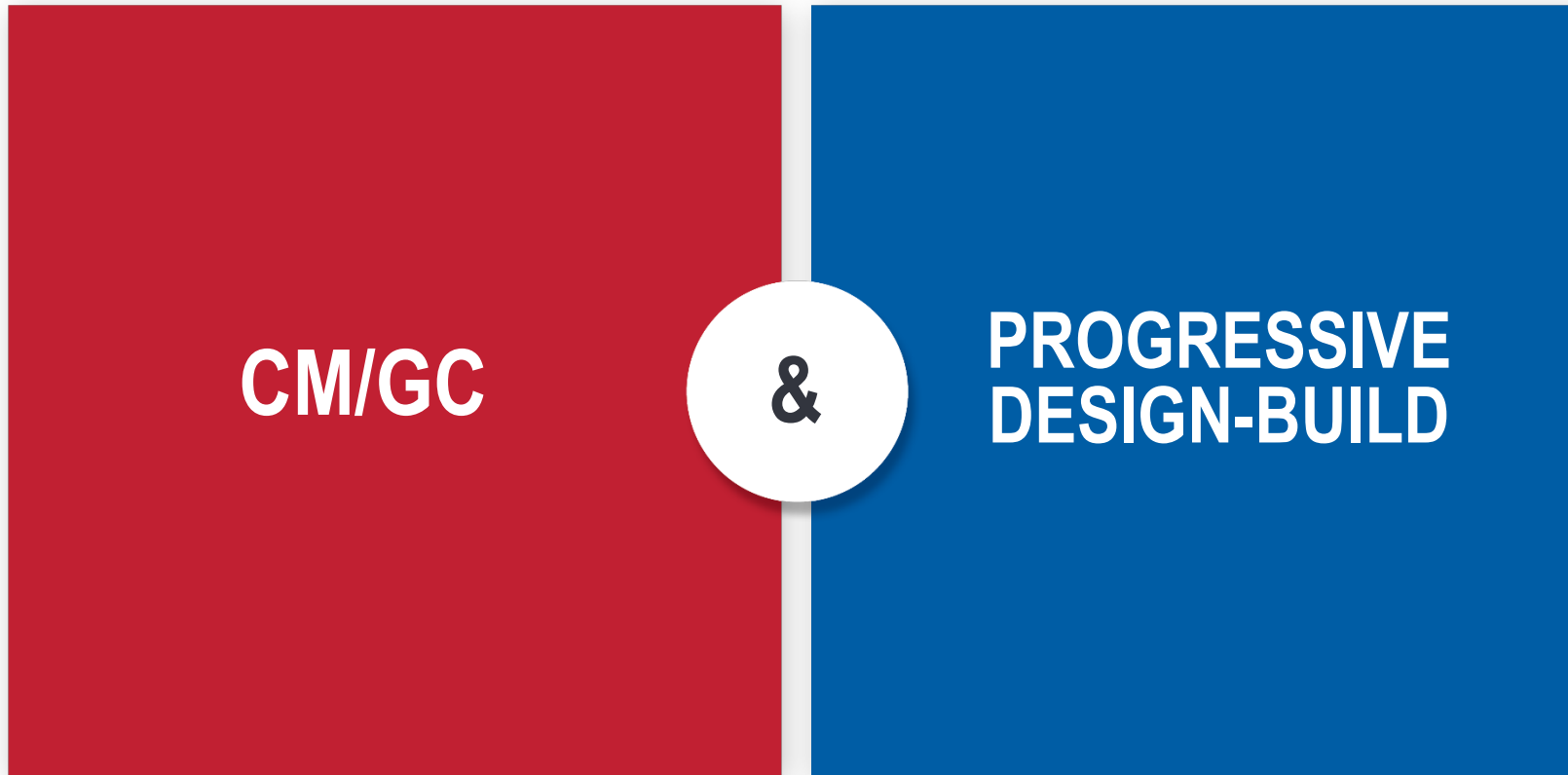


- Currently 40% of non-residential projects are delivered via design-build. (DBIA)

DESIGN-BUILD IS BEST WHEN:

- ☑ Scope is well defined
- ☑ Prescriptive specifications are okay
- ☑ Procurement schedule allows for ATCs
- ☑ Risk easily identified and assigned

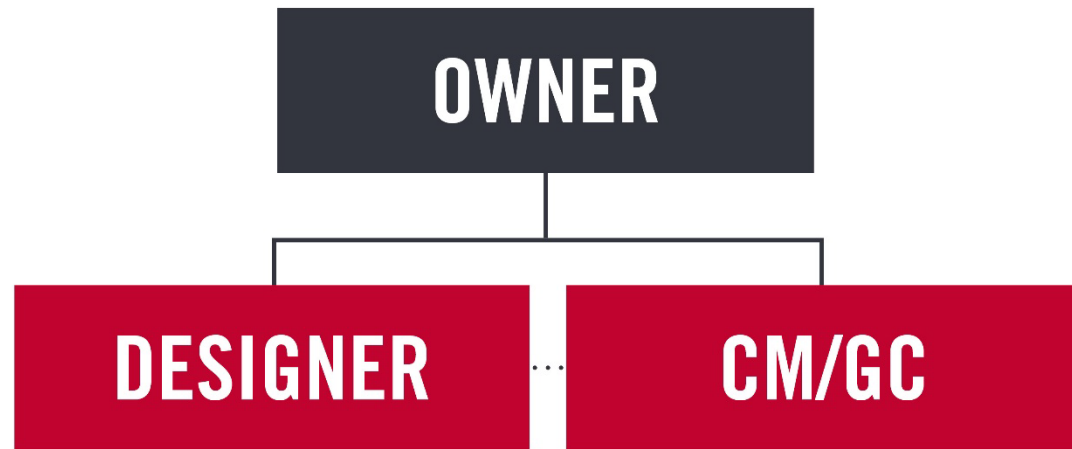
PROGRESSIVE CONTRACTING



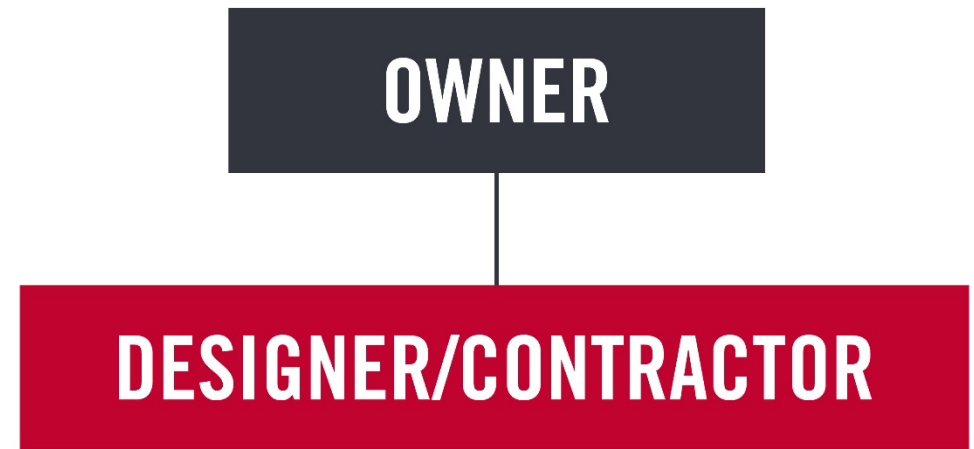
PROGRESSIVE CONTRACTING IS BEST WHEN:

- ☑ Unknown or not fully defined scope
- ☑ Unknown schedule
- ☑ Unidentified risk or risks can't be easily assigned
- ☑ Constructability and material concerns
- ☑ Public engagement or public involvement needed for decisions

CM/GC & PROGRESSIVE DESIGN-BUILD



CM/GC CONTRACT STRUCTURE



PDB CONTRACT STRUCTURE

BENEFITS OF PROGRESSIVE CONTRACTING



Less investment
in proposal
process



Compensation for
pre-construction
work activities



Greater
collaboration



More opportunity
for innovation

BENEFITS OF PROGRESSIVE CONTRACTING



**Greater flexibility
with work packages**



**Pricing transparency
with open book
approach**



**Better
risk management**

PROJECT DELIVERY

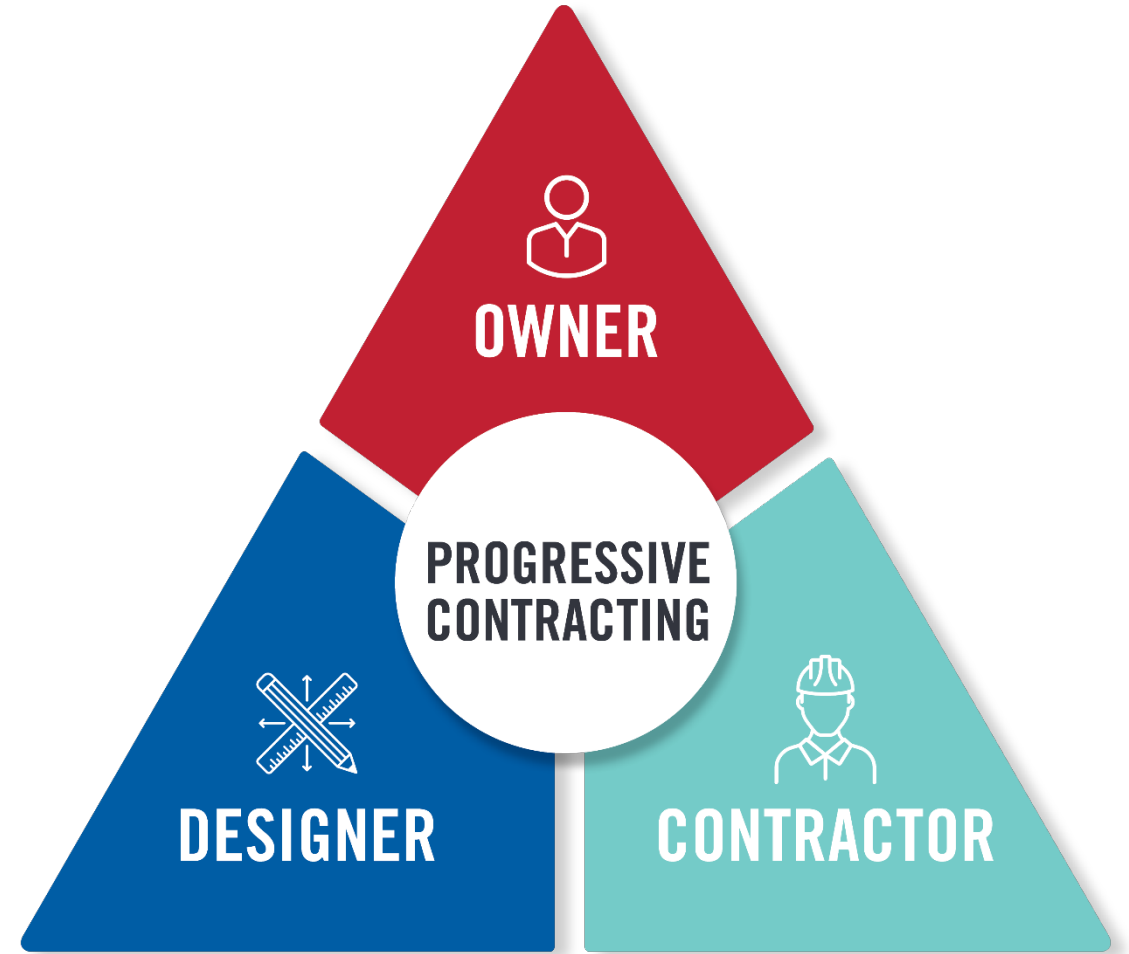
PROCUREMENT



PRECONSTRUCTION PHASE



CONSTRUCTION PHASE



PROCUREMENT – TEAM SELECTION

- ☑ Qualifications
- ☑ Past experience
- ☑ History
- ☑ Collaboration
- ☑ Open book pricing
- ☑ Pricing (CRF 636) “Reasonable Test”

PROCUREMENT – TEAM SELECTION

- ☑ Qualifications
- ☑ Past experience
- ☑ History
- ☑ **Ability to work collaboratively to solve challenges**
- ☑ **Understanding of and willingness to participate in open book pricing process**
- ☑ Pricing (CRF 636) “Reasonable Test”

PRECONSTRUCTION PHASE

- Compensation
- Teamwork
- Constructability reviews
- Risk assignment

BENEFITS

- Optimize the construction
- Optimize staging and sequencing
- Transparent risk pricing



PRECONSTRUCTION PHASE – CONT.

- Project scoping, sequencing, and schedule
- Determine buildable units
- Packaging
- Risk register/mitigation
- Price reconciliation

MILESTONES

- Proof of Concept (30%)
- Intermediate Design (60%)
- Pre-Final – used for establishment of final pricing (70%) [GMP or Lump Sum]

MILESTONES AND RISK REGISTER

- Validate assumptions and determine risk
- Risk workshops and risk register allow:
 - Transparency in pricing
 - Mitigation of costs and schedule impacts

RISK ASSIGNMENT

- Contractor: Included in price but transparent
- Owner: Uncapped risk relief
- Shared: Both capped and uncapped relief

ROLE OF INDEPENDENT COST ESTIMATOR (ICE)

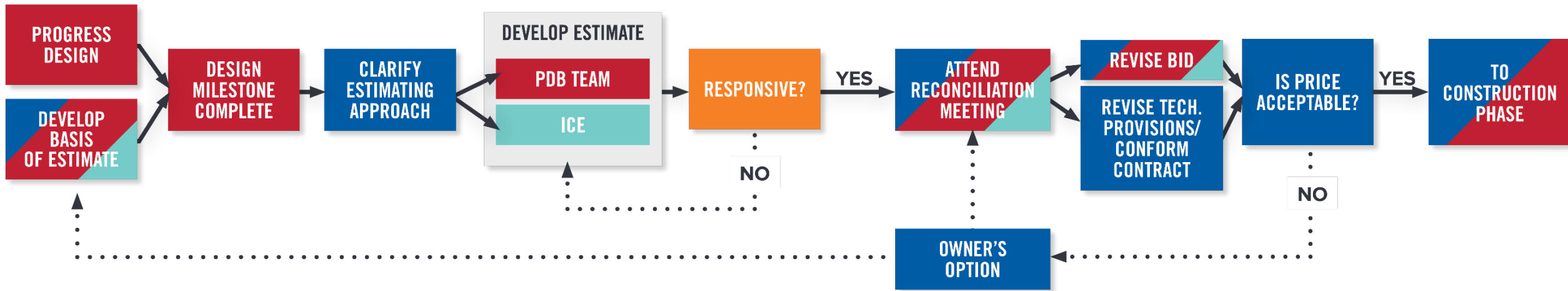
PROTECT PUBLIC INTEREST

PARTICIPATE DURING MILESTONE PRICING

DEVELOP RECONCILIATION ESTIMATES

TASK FORCE MEETING PARTICIPATION

PRICING APPROACH (PROGRESSIVE DESIGN-BUILD)



- Owner
- Blended Teams
- PDB Team
- ICE
- Price Facilitator

OFF RAMPS

CM/GC MODEL:

- Owner may terminate the CM/GC contract
- Owner may retain CM/GC contract but let packages use traditional Design-Bid-Build

&

PROGRESSIVE DB MODEL:

- Owner may terminate the DBA
- If assignment provisions are in the DBA, can retain designer and let project traditional DBB
- Owner could hire a designer to complete design

CONSTRUCTION PHASE

- Final design and RFC plans
- Payment method identified during pre construction phase:
 - GMP paid based on bid items or T&M
 - Lump sum (schedule of values)

CRITICAL IF CONSTRUCTION WORK IS AUTHORIZED OVER MULTIPLE PRICING PACKAGES:

- Pricing/scope/schedule can be agreed in one or more pricing packages
- Pricing strategies include updated opinion of probable construction cost to verify the project does not exceed the budget

Once
Construction
Phase begins,
project functions
like a traditional
Design-
Build project

DELIVERY METHOD COMPARISON

Design-Bid-Build



CM-GC



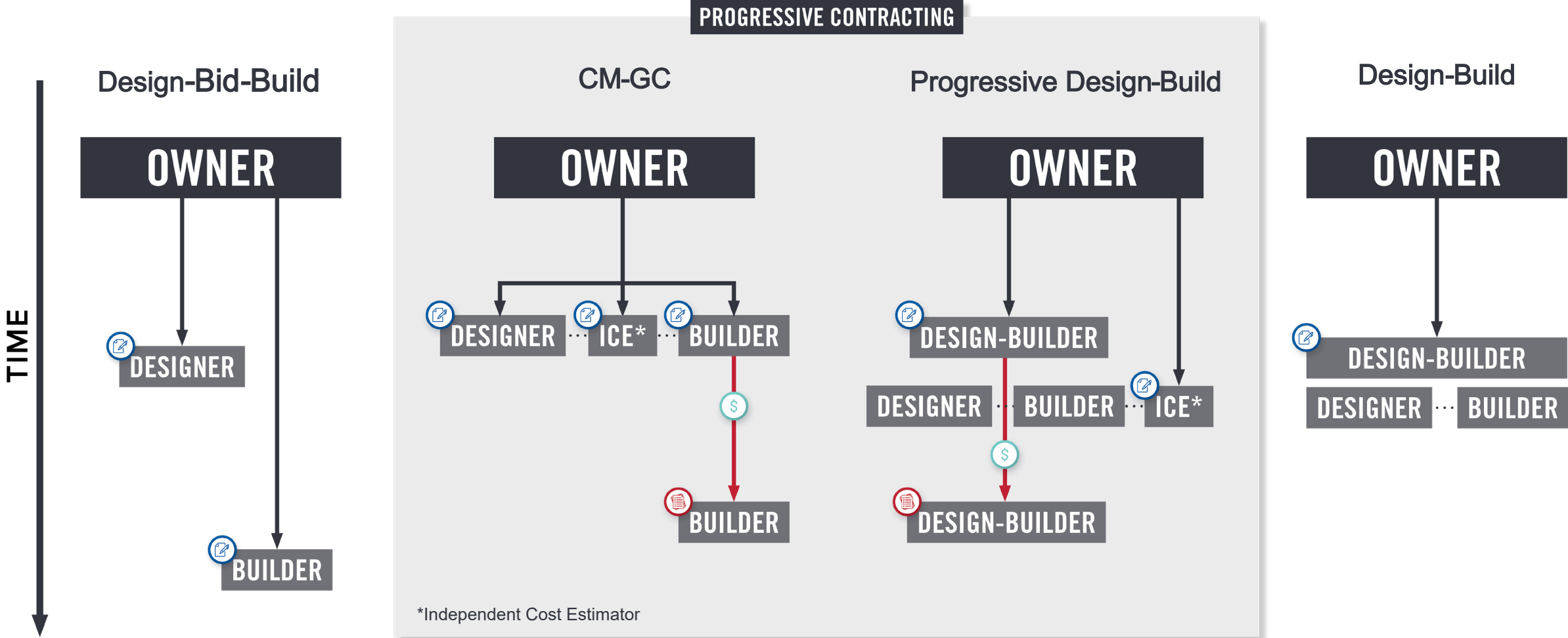
Design-Build



Progressive Design-Build



DELIVERY METHOD COMPARISON



📄 Contract Signed
 🗨️ Scope & Price Negotiations
 💰 Construction Phase Amendment
 Collaborative Relationship



CONCLUSIONS

- Progressive contracting and alternative delivery are here to stay
- Must be used in the right application
 - Does not replace traditional DBB or even low bid DB for straight forward projects
- Must have an engaged owner
- No delivery model replaces good planning and estimates
- Maximum flexibility in Progressive Contracting
- Only works with good partners

CONTACT US

Steve Davidson, PE

Executive Vice President/Partner

sdavidson@structurepoint.com

William Stringer, PE

Principal Project Manager

wstringer@structurepoint.com



THANK YOU!

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