

Lean Construction Institute - Qatar

Transforming the Built Environment

هيئة الأشغال العامة
Public Works Authority



Strategic Partner



Duncan Broyd Principal-in-Charge Centre Block for HOK

Duncan Broyd is a UK architect and currently the Principal-in-Charge of Centre Block for HOK in Ottawa. The complete rehabilitation and updating of the home of the Canadian Parliament. This is the largest rehabilitation project ever carried out in Canada. He leads the CENTRUS design team (a joint venture of HOK and WSP). As part of the senior team he facilitates the work of over 200 professionals located in the Project Office with the Client and Stakeholders.

After 23 years of work for HOK in Florida, Duncan moved to Toronto in 2013 and was charged with the responsibility of the vision, leadership, administration and operational performance of HOK Canada. His hands-on management and planning skills led to success on numerous complex projects (mostly County, State and Federal Courthouses) throughout North America.

He has dealt with multi-faceted clients, extensive consultant coordination and complex planning processes. He is experienced in the multitude of construction delivery systems, including private-public partnerships (P3) and integrated project delivery (IPD). Since 2017 Duncan has been the Principal in Charge of the Design team for the Centre Block Rehabilitation project.

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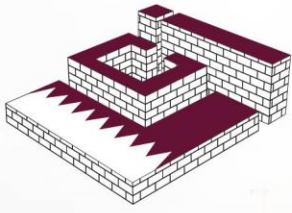


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Translating IPD into the Canadian market



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Principal-in-Charge
Centre Block for HOK

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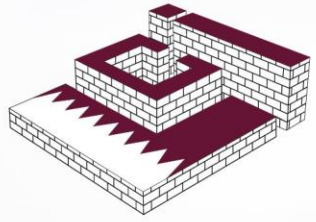


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Design Challenges

- How prepared are you as a client for this once in a career project?
- Is this a project that needs creativity to produce the product?
- How much design do you need to allocate the money?
- How much risk can you take to get something better?
- How many changes are you going to make, and when will they happen?



<https://buildinginformationmanagement.files.wordpress.com/2016/07/lean-construction-delivery-process.png>

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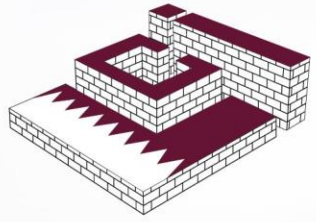


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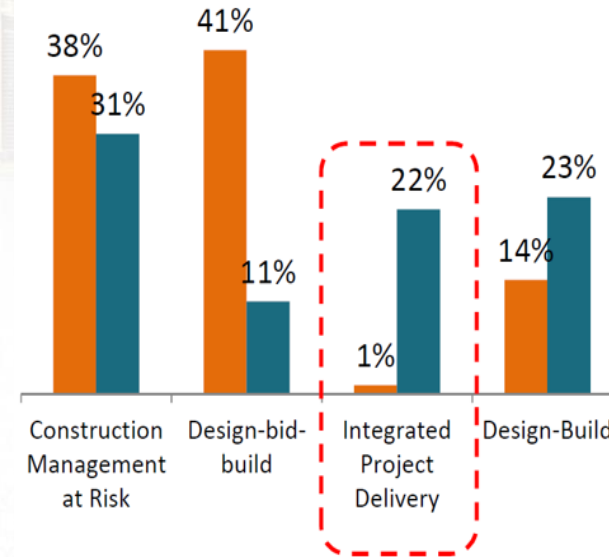


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Current Delivery Models

- What delivery systems are available to you and why chose any of them?
 - Design Bid Build; the “old” way
 - Detail Design Criteria by 3rd Party (PSOS) – Competitive Bid (P3); Ontario model
 - Construction manager @ Risk, or not at Risk working WITH design team; used globally
 - Integrated Project Delivery (IPD) Set a target and ALL work together

Top Project Delivery Methods on Typical and Best Projects (20% or more usage on either)



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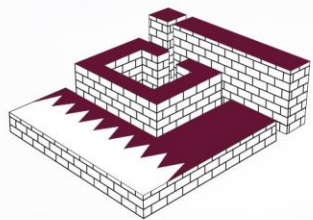


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Design Bid Build

- you decide what you want with the Architect, you bid it and then fight to get it - how do you get value for changes?



Miami Dade Childrens' Courthouse, Miami, Florida

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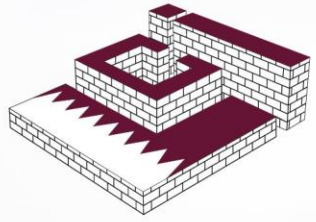


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Detail Design Criteria by 3rd Party (PSOS)

- Competitive Bid (P3)
- encourages cutting corners in the build.
- Finance charges can be huge and a lack of transparency to costs.



Humber River Hospital, Toronto (P3)

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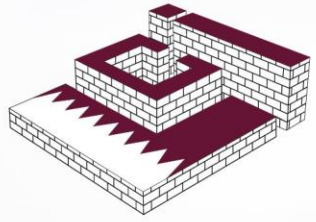


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Design/Build and Construction Manager at Risk:

Set goals and needs internally (informed client), fix the yearly spend maximum (lease) and get as much as you can for the price. Build it and focus on the quality. Much more integrated.



Howard County Courthouse, MD.

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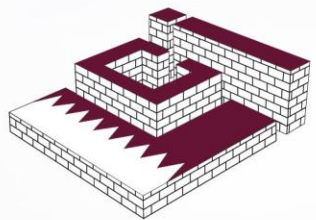


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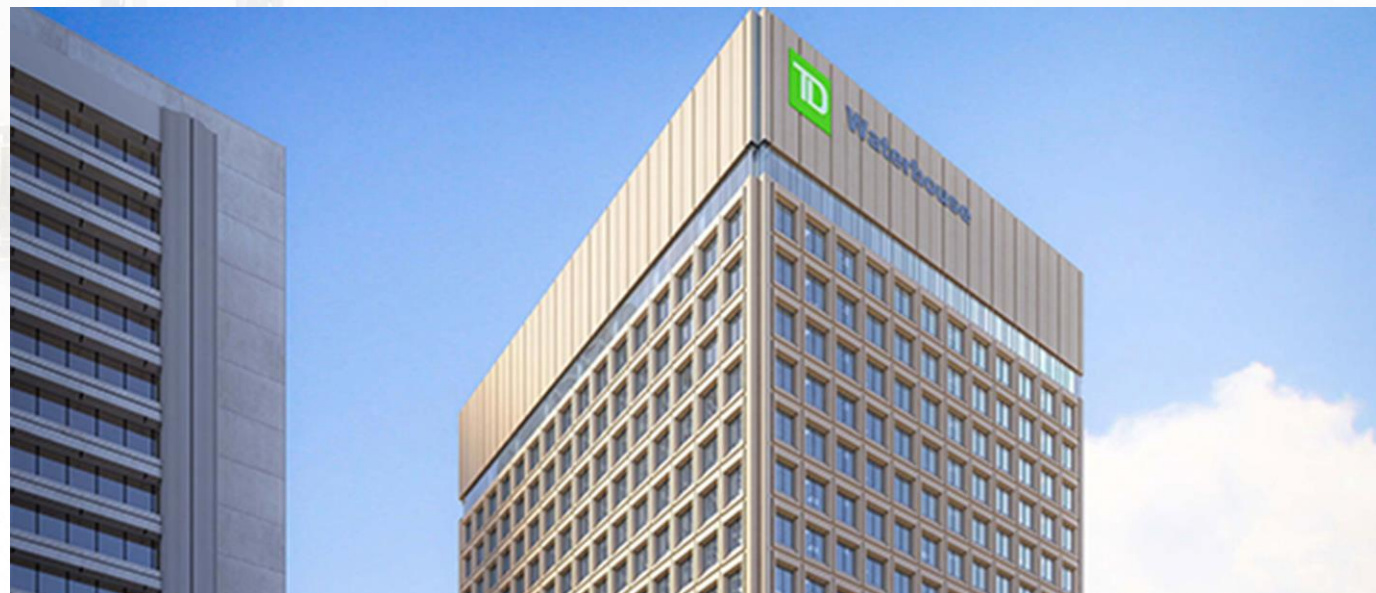
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Integrated Project Delivery:

- Full team on board in design
- Design to build not only to design
- Work as partners on means and methods and delivery
- Profit at risk aligns contracts and incentives



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