# Deloitte.



## M&A trends and drivers

2017 Engineering and Construction Conference

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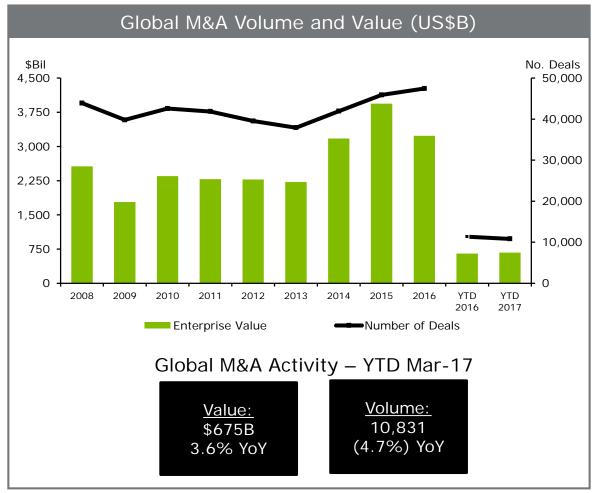
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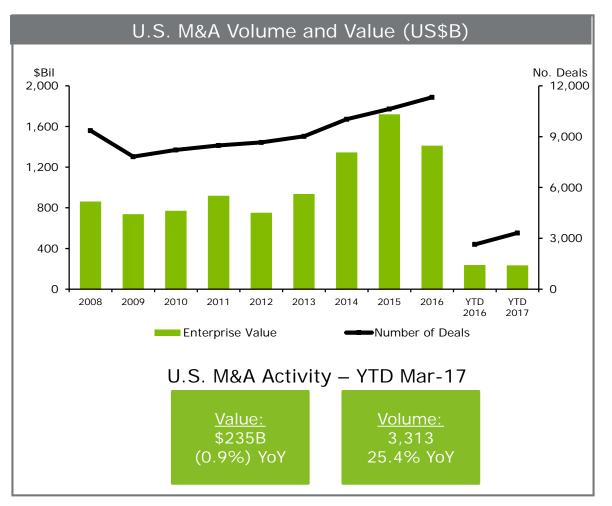
## Agenda

Module/Topic Service S
M&A Trends and Drivers
Macro perspective
Engineering & construction industry
M&A workshop – Key takeaways
Financial due diligence
Tax due diligence
IT due diligence
Project due diligence
Q&A

# M&A Trends and drivers Macro perspective

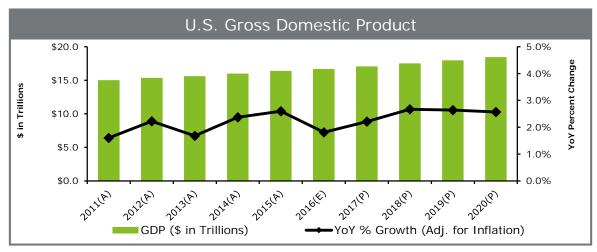
## **Current M&A markets**

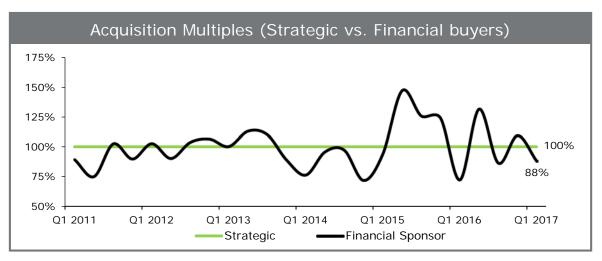


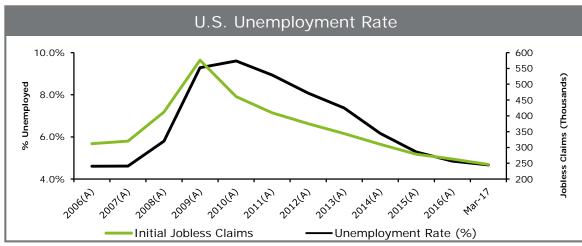


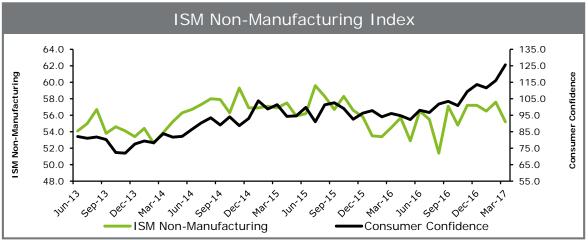
Source: Thompson Financial

## Select Macro considerations



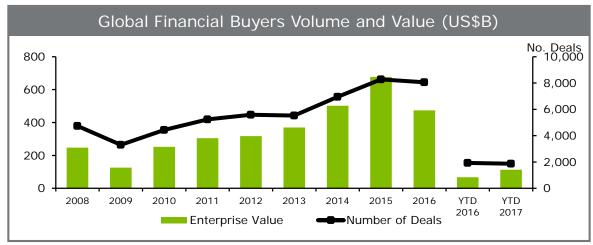


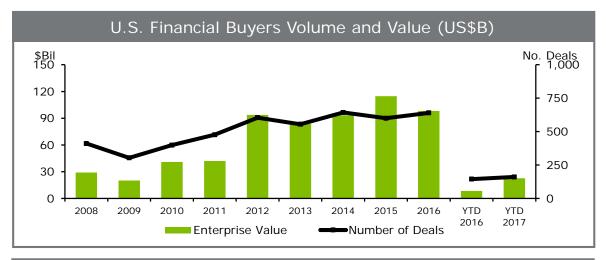


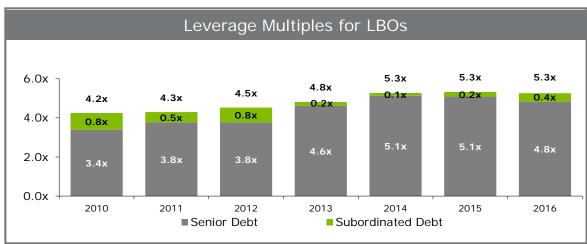


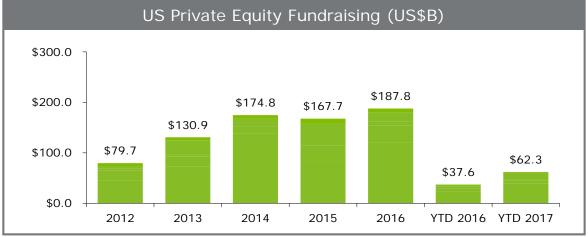
Source: Capital IQ

## Financial buyers activity









Source: Thompson Financial

## Deloitte 2016 M&A Trends Report

Using survey responses from 1000 executives from U.S. corporations and private equity firms, the report provides insights into future M&A activity as well as deal dynamics. Key findings from the survey include the following:

#### • M&A momentum continues

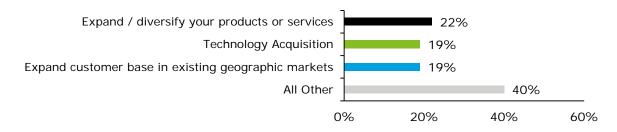
Respondents expect the pace of M&A activity to sustain or ramp up from 2016 levels in the next 12 months





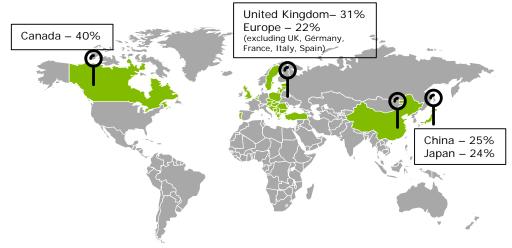
#### Increased technology focus

Acquisition of technology assets surged in importance as a top strategic driver of M&A, tying for second with expanding customer bases.



## Continued effort to expand customer bases via overseas expansion

More than 90% of respondents say at least some of their company's M&A will involve targets in foreign markets, up from 77% in mid-year 2016



### Exits and divestitures poised to grow

- About 72% of PEI respondents reported they anticipate pursuing an exit in the next 12 months.
- About 73% of corporate respondents reported they anticipate divesting a business in 2017.

# M&A Trends and drivers Engineering & construction industry

## Specific industry knowledge

An in-depth analysis of opportunities and risks in each market shows that the level of attractiveness for infrastructure companies varies significantly by geography.

## North America and older members of the EU

#### Opportunities:

- Enormous need for investment in certain countries (USA/Canada) and a pipeline of projects
- Macroeconomic stability
- Political and social stability
- Legal certainty

#### Risks:

- High level of competition
- Increased costs
- Potential industrial disputes between states

#### New members of the EU

#### Opportunities:

- Growing demand
- · Insufficient infrastructure

#### Risks:

- Macroeconomic situation
- Cultural differences
- Legal framework and legal certainty

#### Middle East

#### Opportunities:

- Growing demand
- Insufficient infrastructure
- Financially solvent customers
- Established Anglo-Saxon law

#### Risks:

- Cultural differences
- Legal framework and legal certainty
- Corruption
- "Doing business in ME"

#### Latin America

#### Opportunities:

- Growing demand
- Shared culture
- Spanish / Portuguese speaking areas with presence of Spanish Construction Companies

#### Risks:

- Regular economic crises
- Political instability
- Poverty and social issues
- Legal framework and legal certainty
- Corruption
- Competition: Brazilian construction companies

#### Africa

#### Opportunities:

- Growing demand
- French-speaking and English-speaking areas with the presence of French and international construction companies
- Portuguese presence in some countries (Mozambique, Angola, Namibia)

#### Risks:

- Political instability
- Poverty and social issues
- · Legal framework and legal certainty
- Corruption
- Competition: Presence of Chinese construction companies

#### Asia and Oceania

#### Opportunities:

- Growing demand and economic growth
- Potential Market share
- Trade margin
- Insufficient infrastructure
- The Australian market is growing and has legal certainty

#### Risks:

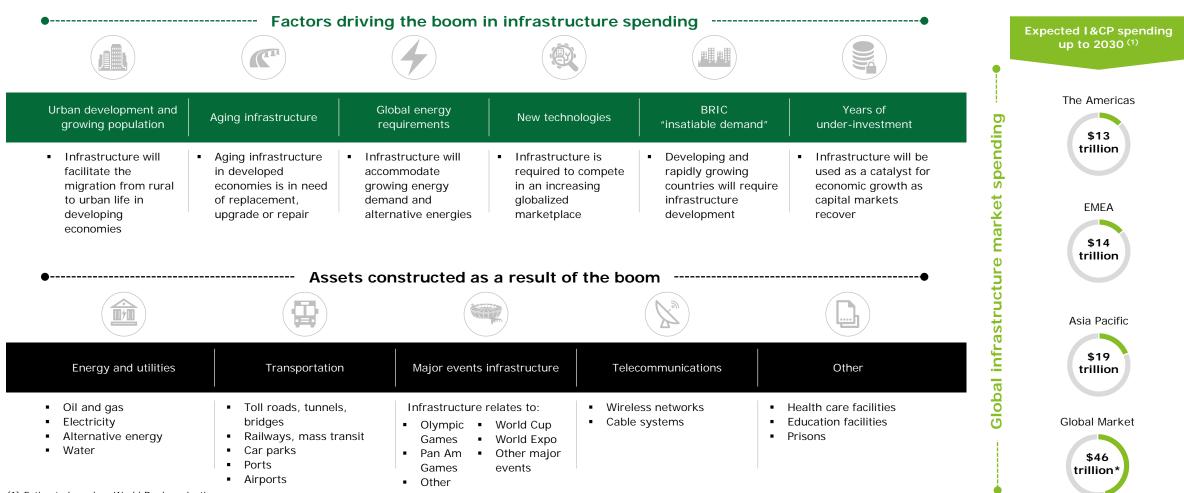
- Cultural differences
- Corruption
- China: The market is closed to foreign construction companies

India: Corruption, industrial practices



## Specific industry knowledge (cont.)

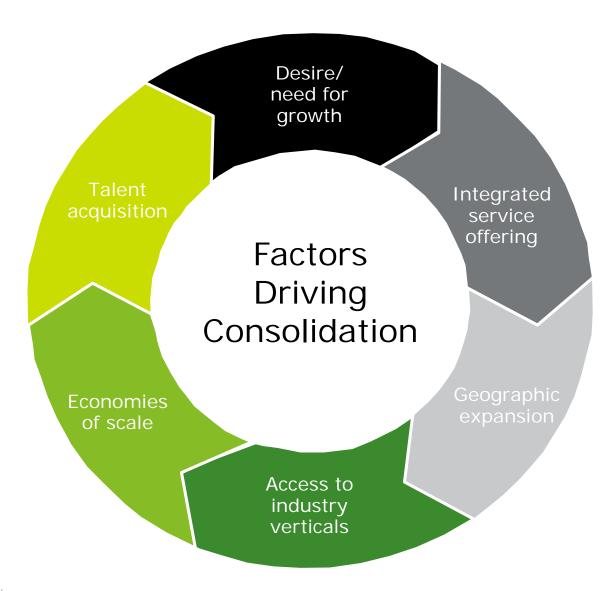
The construction market is projected to grow in the coming year for several reasons:



<sup>(1)</sup> Estimate based on World Bank projections

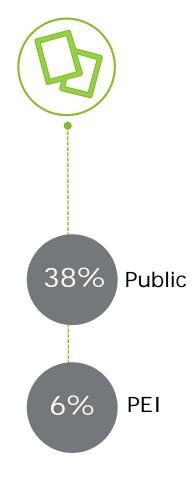
<sup>\*</sup> More than 70% of infrastructure investment up to 2030 in developing countries

## Industry consolidation continues



## Top 50 Design (2017)

	Top 50 De	sign F	irms
1	AECOM	26	LOUIS BERGER
2	JACOBS	27	WORLEYPARSONS GROUP INC.
3	CH2M	28	WOOD GROUP
4	FLUOR CORP.	29	GHD INC.
5	TETRA TECH INC.	30	TERRACON CONSULTANTS INC.
6	CB&I	31	PERKINS+WILL
7	AMEC FOSTER WHEELER	32	MICHAEL BAKER INTERNATIONAL
8	HDR	33	S&B ENGINEERS AND CONSTRUCTORS LTD.
9	KBR	34	MOTT MACDONALD
10	STANTEC INC.	35	EXP US SERVICES INC.
11	BECHTEL	36	SARGENT & LUNDY LLC
12	PARSONS	37	ATKINS NORTH AMERICA
13	ARCADIS NV	38	CDI CORP.
14	WSP   PARSONS BRINCKERHOFF	39	HOK
15	BLACK & VEATCH	40	STV GROUP INC.
16	BURNS & MCDONNELL	41	KIEWIT CORP.
17	INTERTEK GROUP PLC	42	POWER ENGINEERS INC.
18	GENSLER	43	FUGRO
19	HNTB COS.	44	CARDNO
20	GOLDER ASSOCIATES CORP.	45	HKS
21	KIMLEY-HORN	46	T.Y. LIN INTERNATIONAL
22	LEIDOS HOLDINGS, INC.	47	DEWBERRY
23	TRC COS. INC.	48	BROWN AND CALDWELL
24	CDM SMITH	49	IBI GROUP
25	BUREAU VERITAS SA	50	ARUP

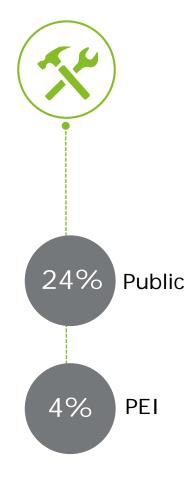


Note: Green shading denotes publicly traded entities or entities with a publicly-traded parent company; Gray shading denotes private equity owned entities.

Source: Engineering News-Record

## Top 50 Contractors (2017)

	Top 50 Contractors						
1	BECHTEL	26	SUFFOLK CONSTRUCTION CO.				
2	FLUOR CORP.	27	TURNER INDUSTRIES GROUP LLC				
3	THE TURNER CORP.	28	GRANITE CONSTRUCTION INC.				
4	CB&I	29	BARTON MALOW CO.				
5	AECOM	30	BRASFIELD & GORRIE LLC				
6	KIEWIT CORP.	31	DRAGADOS NORTH AMERICA				
7	SKANSKA USA INC.	32	KBR				
8	PCL CONSTRUCTION ENTERPRISES INC.	33	AUSTIN INDUSTRIES				
9	TUTOR PERINI CORP.	34	ALBERICI-FLINTCO				
10	THE WHITING-TURNER CONTRACTING CO.	35	PRIMORIS SERVICES CORP.				
11	THE WALSH GROUP LTD.	36	MICHELS CORP.				
12	CLARK GROUP	37	CHINA CONSTRUCTION AMERICA				
13	GILBANE BUILDING CO.	38	CLAYCO INC.				
14	BALFOUR BEATTY	39	THE YATES COS. INC.				
15	STRUCTURE TONE	40	DEVCON CONSTRUCTION INC.				
16	DPR CONSTRUCTION	41	BLACK & VEATCH				
17	SWINERTON INC.	42	OHL USA INC.				
18	MORTENSON CONSTRUCTION	43	WEBCOR CONSTR. DBA WEBCOR BUILDERS				
19	HENSEL PHELPS	44	AMEC FOSTER WHEELER				
20	MCCARTHY HOLDINGS INC.	45	PERFORMANCE CONTRACTORS INC.				
21	JACOBS	46	WOOD GROUP				
22	ZACHRY GROUP	47	MANHATTAN CONSTRUCTION GROUP				
23	JE DUNN CONSTRUCTION GROUP	48	HATHAWAY DINWIDDIE CONSTRUCTION CO.				
24	LENDLEASE GROUP	49	HOFFMAN CORP.				
25	HOLDER CONSTRUCTION CO.	50	WALBRIDGE				

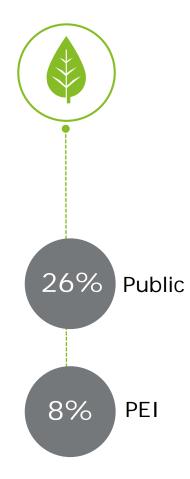


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Source: Engineering News-Record

## Top 50 Environmental Firms (2016)

	Top 50 Environmental Firms						
1	AECOM	26	GHD				
2	CH2M	27	TRADEBE ENVIRONMENTAL SERVICES				
3	BECHTEL	28	AEGION CORP.				
4	VEOLIA NORTH AMERICA	29	RAMBOLL ENVIRON INC.				
5	CLEAN HARBORS INC.	30	WSP   PARSONS BRINCKERHOFF				
6	TETRA TECH INC.	31	ICF INTERNATIONAL				
7	FLUOR CORP.	32	ANTEA GROUP				
8	ARCADIS NV	33	BROWN AND CALDWELL				
9	MWH GLOBAL	34	MCCARTHY HOLDINGS INC.				
10	SUEZ SA	35	WEEKS MARINE INC.				
11	AMEC FOSTER WHEELER	36	PCL CONSTRUCTION ENTERPRISES INC.				
12	CDM SMITH	37	LOUIS BERGER				
13	HDR	38	TRC COS. INC.				
14	ENV. RESOURCES MANAGEMENT INC. (ERM)	39	BARNARD CONSTRUCTION CO. INC.				
15	BATTELLE	40	LEIDOS				
16	BLACK & VEATCH	41	WORLEYPARSONS				
17	THE WALSH GROUP LTD.	42	PC CONSTRUCTION CO.				
18	STANTEC INC.	43	GEOSYNTEC CONSULTANTS INC.				
19	CB&I	44	LYLES CONSTRUCTION GROUP				
20	KIEWIT CORP.	45	KOKOSING INC.				
21	NORTHSTAR GROUP SERVICES INC.	46	BOWEN				
22	GARNEY HOLDING CO.	47	ALBERICI/FLINTCO				
23	PARSONS CORP.	48	CAROLLO ENGINEERS INC.				
24	LAYNE CHRISTENSEN CO.	49	NATIONAL RESPONSE CORP.				
25	GOLDER ASSOCIATES	50	BURNS & MCDONNELL				

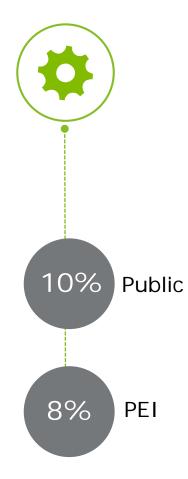


Note: Green shading denotes publicly traded entities or entities with a publicly-traded parent company; Gray shading denotes private equity owned entities.

Source: Engineering News-Record

## Top 50 Specialty Contractors (2016)

	Top 50 Specialty Contractors						
1	QUANTA SERVICES INC.	26	HAYWARD BAKER INC.				
2	EMCOR GROUP INC.	27	FIVE STAR ELECTRIC CORP.				
3	MASTEC INC.	28	TDINDUSTRIES INC.				
4	BRAND ENERGY & INFRASTRUCTURE SERVICES INC.	29	STEELFAB INC.				
5	API GROUP INC.	30	BERGELECTRIC CORP.				
6	SAFWAY GROUP	31	SCHUFF STEEL				
7	THE BROCK GROUP	32	CONTI CORP.				
8	HENKELS & MCCOY INC.	33	HELIX ELECTRIC INC.				
9	COMFORT SYSTEMS USA	34	BOND BROTHERS INC.				
10	PERFORMANCE CONTRACTING GROUP INC.	35	THE NEWTRON GROUP				
11	ROSENDIN ELECTRIC	36	UNIVERSAL PLANT SERVICES INC.				
12	MYR GROUP INC.	37	ALDRIDGE ELECTRIC INC.				
13	MDU CONSTRUCTION SERVICES GROUP INC.	38	FAITH TECHNOLOGIES INC.				
14	ACCO ENGINEERED SYSTEMS	39	HARRIS COS.				
15	MVERGE	40	STRUCTURAL GROUP				
16	TEAM INDUSTRIAL SERVICES	41	MORROW-MEADOWS CORP.				
17	CUPERTINO ELECTRIC INC.	42	LITHKO CONTRACTING LLC				
18	BAKER CONCRETE CONSTRUCTION INC.	43	THE BRANDT COS.				
19	MMR GROUP INC.	44	KEYSTONE CONCRETE PLACEMENT				
20	NORTHSTAR GROUP SERVICES INC.	45	HUNT ELECTRIC CORP.				
21	M.C. DEAN INC.	46	REDWOOD ELECTRIC GROUP				
22	CENTIMARK CORP.	47	THE STATE GROUP INC.				
23	MCKINSTRY	48	BARNHART CRANE AND RIGGING CO.				
24	CECO CONSTRUCTION GROUP	49	CACHE VALLEY ELECTRIC. CO.				
25	SOUTHLAND INDUSTRIES	50	LIMBACH FACILITY SERVICES				



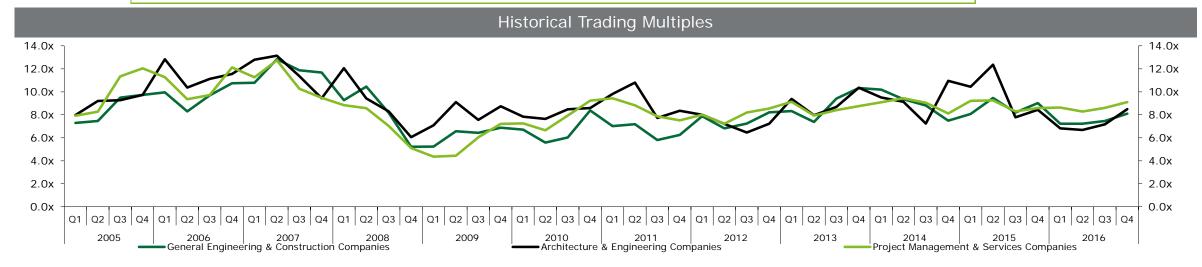
Note: Green shading denotes publicly traded entities or entities with a publicly-traded parent company; Gray shading denotes private equity owned entities.

Source: Engineering News-Record

## Select Relevant Public Comparables

Industry	Breakdown	&	Trading	Statistics
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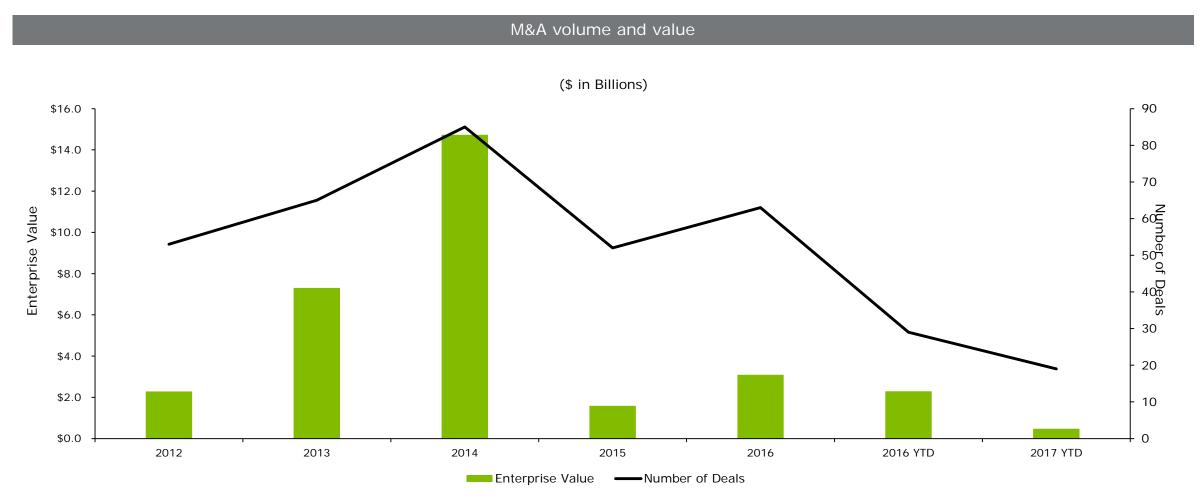
							Last Twelv	e Months	NTM
Sector	Number of Companies	% of 52 Week High	Median Revenue CAGR (3 Yr)	Median LTM EBITDA	Median EBITDA Margin	Median Enterprise Value (\$)	EV/ Revenue	EV/ EBITDA	EV/ EBITDA
(\$ in Millions)									
General Engineering & Construction Companies	25	90.2 %	1.1 %	\$161.5	7.2 %	\$1,900.3	0.6 x	9.3 x	7.0 x
Architecture & Engineering Companies	11	95.5	2.3	248.8	8.4	3,445.0	0.7	9.1	6.9
Project Management & Services Companies	19	92.2	1.5	289.5	7.5	4,053.0	0.8	9.6	8.8
Comparable Public Companies	36	92.8 %	1.7 %	\$205.1	7.8 %	\$2,672.7	0.7 x	9.2 x	7.0 x



Source: Capital IQ

## Engineering & construction M&A Transactions

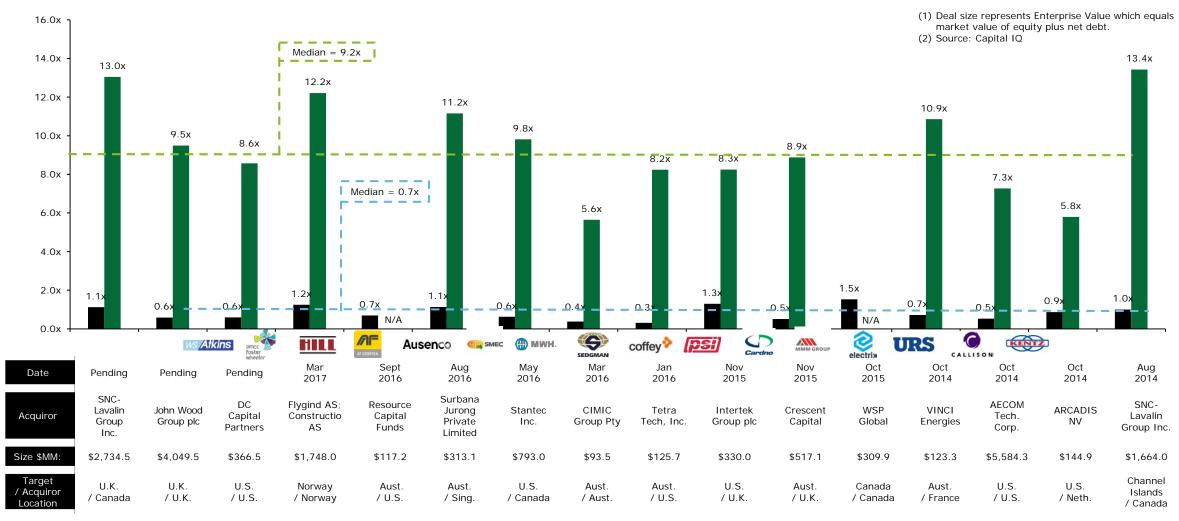
## Top 50 Lists – All companies



Source: Capital IQ
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## Select relevant transaction multiples

Related M&A Activity has led to median transaction multiples of 9.2x EV/LTM EBITDA and 0.7x EV/LTM Revenue.

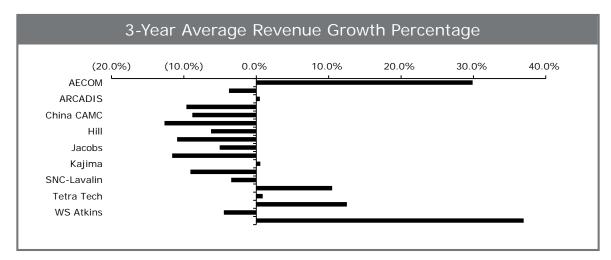


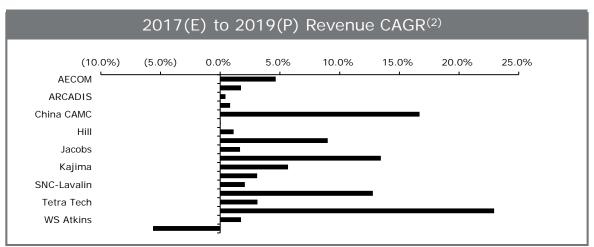
## Income statement benchmarking

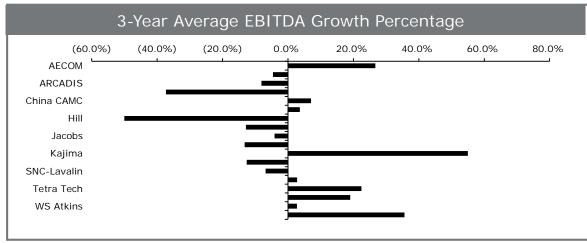
#### Footnotes:

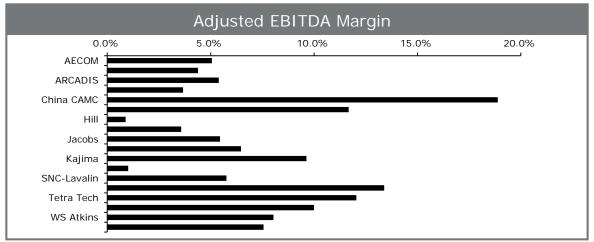
(1) Data as of 4/11/2017

(2) Source: Capital IQ









## A&D

# M&A Workshop Key takeaways

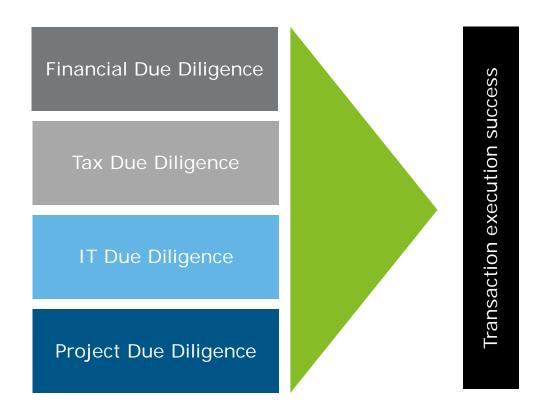
## Due Diligence best practices

Key focus area	Best practices
	• 80:20 rule — "must have" vs. "nice to have"
	<ul> <li>Establish clear and consistent process across all deal types</li> </ul>
Planning and	<ul> <li>Select functional team participants that are "up-to-speed"</li> </ul>
process	<ul> <li>Define regularly scheduled checkpoints to assess progress against milestones</li> </ul>
	Utilize institutionalized learning — building on past success
	<ul> <li>Conduct thorough due diligence and link it to other M&amp;A activities</li> </ul>
	Set deal goals and objectives focused on strategy
	Focus on the most critical transaction elements
D	<ul> <li>Maintain control through setting milestones, benchmarks and deadlines</li> </ul>
Process efficiency	<ul> <li>Establish clear team roles, responsibilities and central command</li> </ul>
ciriciency	• Coordinate information gathering and sharing and take one team approach with communication across teams and advisors
	<ul> <li>Complete real time problem identification and resolution</li> </ul>
	<ul> <li>Translate due diligence findings into clear integration plans and objectives</li> </ul>
	Streamline reporting from internal teams and external advisors
Donartina	<ul> <li>Accumulate executive summary from each functional team</li> </ul>
Reporting	<ul> <li>Complete final report summarizing critical issues and observations</li> </ul>
	<ul> <li>Integrate results into negotiation strategy and integration planning</li> </ul>

## Due Diligence best practices (cont.)

Key focus area	Best practices
	Diligence/integration playbook
Tools	Standard information request lists
	Functional instructions
	Standardized reporting templates
	• Establish disciplined approach to strategic decision making, including accretion/dilution analysis, quantification of diligence findings and use of standard models
	• Perform rigorous analysis of synergies to identify probable outcomes and the associated likelihood of achieving strategic value
N/ 1 1'	<ul> <li>Consider structuring alternatives to improve the likelihood of achieving the expected strategic objectives and value</li> </ul>
Valuation	Develop risk map
	Translate value into deal terms
	<ul> <li>Avoid using the model to justify a pre-determined outcome</li> </ul>
	Perform independent review

## Due Diligence Workshop focus areas



## Key Takeaways / Focus Areas Financial Due Diligence

#### Quality of Earnings – Normalized EBITDA

- Revenue recognition
- Impact of nonrecurring revenue
- Project lookback analyses
- Significant accounting policies
- One-time and nonrecurring expenses and reserve adjustments
- Pro forma adjustments standalone costs, etc.
- Other cash flow consider considerations capex needs

#### Other Quality of Earnings Analysis

- Customer profitability
- Backlog trends
- Foreign exchange
- Organic vs acquired growth

### Normalized Net Working Capital

- Cash and debt free view
- Significant trends and seasonality
- Terms for significant customers/vendors
- Adequacy of allowances and reserves
- NWC "peg" analysis

#### Net Debt and Debt-Like Items

- Employee related (pensions, deferred compensation, severance)
- Restructuring and self-insurance reserves
- Commitments and contingencies

#### Purchase agreement considerations

- NWC and Net Debt definitions impact value
- Earn-outs

## Key Takeaways / Focus Areas Project Due Diligence

#### WIP Analysis:

- Look at WIP over time, margin fade
- Include review of those projects outside sweet spot
- Include geographic risk areas (international)
- Include PM names for accountability

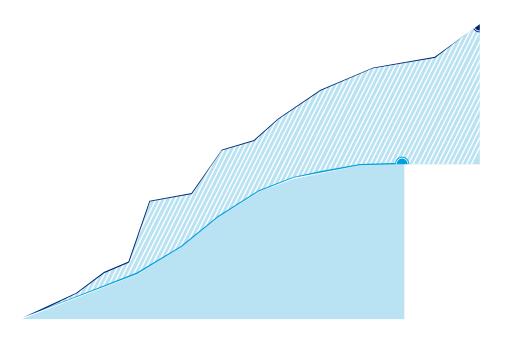
### **Project Level:**

- Phased approach due to limited time and personnel
- Identify key leader with operational experience to lead
- Involve trusted and experienced project managers, engineering managers, or superintendents
- Meet with head of risk (if available)

#### **Lessons Learned:**

- Backlog not what communicated
- Entry into new geographic location more difficult impacting target
- Over-recognizing revenue, leaving out costs





# Key takeaways IT Due Diligence

- What are the typical issues that you see for IT when looking at E&C deals?
- What are the best practices in preparing IT for an acquisition?
  - -What about an integration?
- How often is it that a deal busts because of IT?

## Key takeaways Tax Due Diligence

#### General

- -How to deal with other side, friend or foe?
- -How are organizations modeling tax rates with prospective changes to the tax code?
- -When to accommodate Sellers after the structure has been decided?
- -Why does who owns us or the target matter?
- -How to determine what country to include for non-US taxes?
- Specific Tax Issues
  - -What is an R&D Credit worth?
  - -Revenue Recognition?
  - -Indirect taxes, why do they always seem to be problematic?

## A&D

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