Understand the Industry's Winter 2015 Outlook... Looking Ahead







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As a consultant with FMI, Bridget Wandelt advises clients in the engineering and construction industry. Primarily, she conducts research to inform client strategy, including market sizing and forecasting.

Prior to joining FMI, Bridget was a senior analyst with ScottMadden, a management consulting firm focused on the energy and utilities industry. There she developed expertise in project management, operations improvement, process redesign, and research. Previously, Bridget worked in electric power project development in the United States and Europe.

Bridget attended the University of Virginia, graduating with a bachelor's in environmental sciences and environmental thought/practice (coursework in policy and economics) and subsequently a master's in environmental sciences. She is currently completing an Executive MBA at UNC-Chapel Hill Kenan Flagler Business School and will graduate in fall of 2016.

About FMI



Founded in 1953 by Dr. Emol A. Fails, FMI is the leading management consulting, investment banking,[†] and people development firm dedicated exclusively to the engineering and construction industry. FMI professionals serve all sectors of the industry and combine more than 60-plus years of industry context and leading insights to achieve transformational outcomes for our clients. We have subject matter experts in the following practice areas and serve clients throughout the U.S., Canada, and internationally:

Management Consulting

- Strategy
- Market research
- Business development
- Operations and project execution
- Risk management
- Compensation
- Peer groups
- Performance management

Investment Banking[†]

- M&A representation
- Valuations and fairness opinions
- Private capital placement
- Ownership transfer planning

People Development

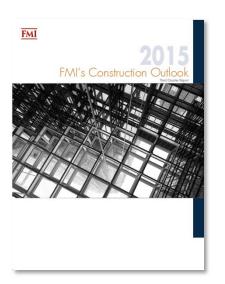
- Organizational leadership development
- Leadership training
- Executive coaching
- Succession planning
- Training and talent development

† Investment banking services provided by FMI Capital Advisors, Inc., a registered broker-dealer and wholly owned subsidiary of FMI.





FMI's metrics



Construction Outlook and U.S. Markets Construction Overview – published quarterly and annually, respectively, these publications provide detailed forecasts for the construction industry.



Nonresidential
Construction Index
report – published
quarterly, this report
quantifies sentiment/
level of optimism among
construction executives.





Research solutions

FMI offers several research solutions to assist with the development of your market strategy:

- Market assessments define, characterize, and forecast key dynamics in the marketplace including:
 - Geographic assessment
 - Product/industry assessment
 - Construction segment
- Market perception studies assess the market's opinions of your service performance, brand image, competitive positioning, and degree to which you are meeting customers' needs.
- **Craft labor studies** craft labor studies evaluate the balance between market demand and the available labor supply.
- **Forecasting** forecasts include econometric and demographic relationships developed by FMI and FMI's analysis and interpretation of current and expected social and economic conditions.
- **Customized research services** if you are facing a business problem, we can help. Reach out to us and we will prepare a customized proposal.





Today's webinar

Construction market overview

Electronic systems outlook

Key trends





Construction market overview

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Electronic systems outlook

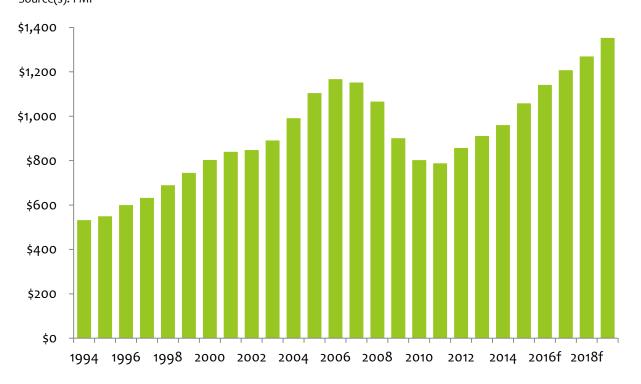
Key trends





The construction market is forecast to continue its current growth.

Total construction put in place, 1994-2019f



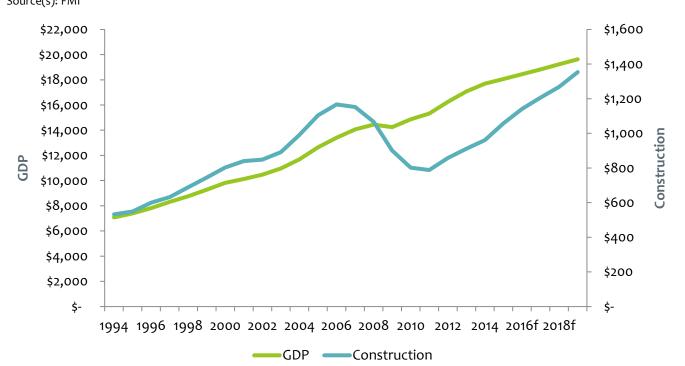






Construction investment continues to recover following the Great Recession.

GDP and total construction put in place, 1994-2019f



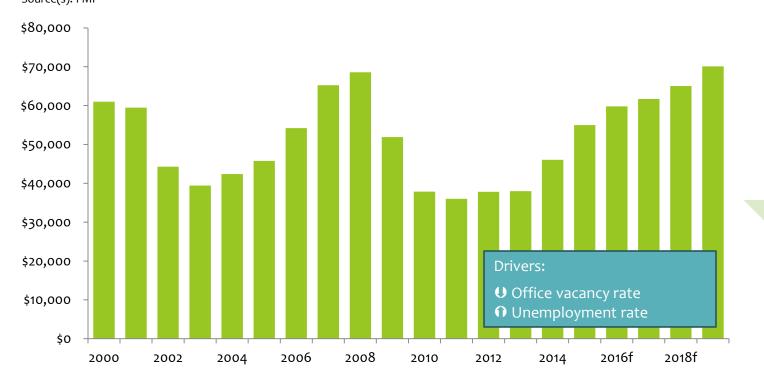






Corporate is forecast to grow 8.8% annually over the next four years.

Corporate construction put in place, 2000-2019f

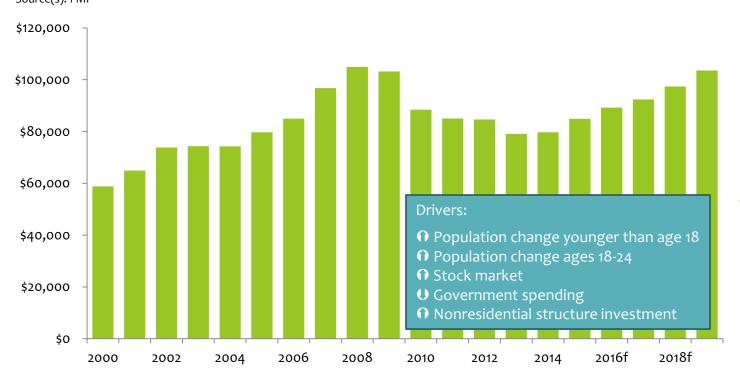






Education is forecast to grow 5.4% annually over the next four years.

Education construction put in place, 2000-2019f



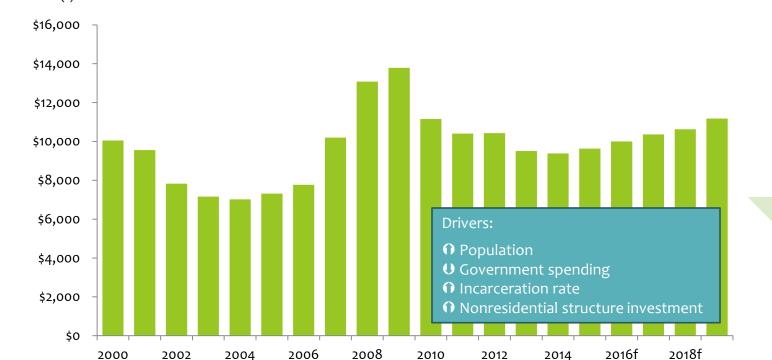






Government is forecast to grow 3.6% annually over the next four years.

Government construction put in place, 2000-2019f



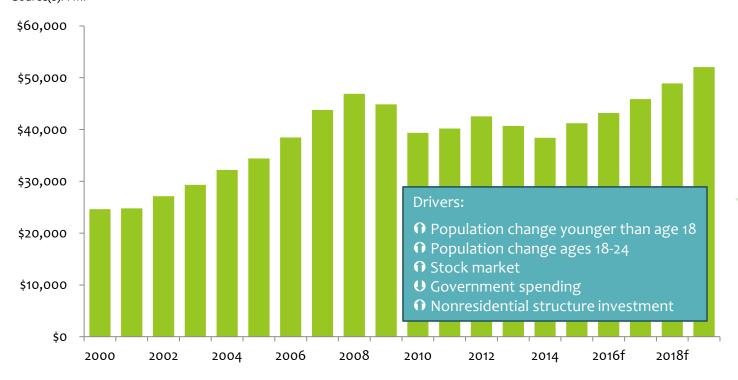






Healthcare is forecast to grow 6.3% annually over the next four years.

Healthcare construction put in place, 2000-2019f







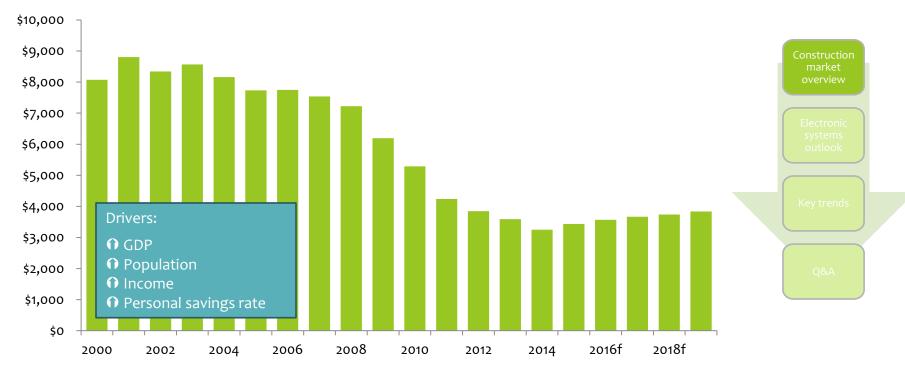


House of worship is forecast to grow 3.4% annually over the next four years.

House of worship construction put in place, 2000-2019f

Billions of current dollars.

Source(s): FMI

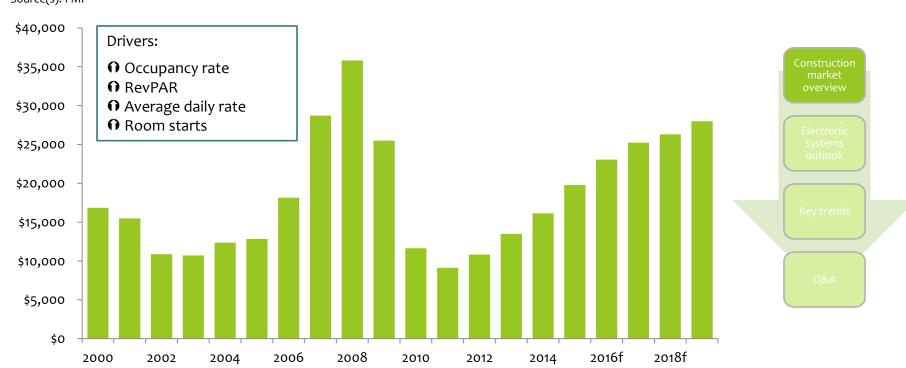






Lodging is forecast to grow 11.7% annually over the next four years.

Lodging construction put in place, 2000-2019f







Manufacturing is forecast to grow 6.3% annually over the next four years.

Manufacturing construction put in place, 2000-2019f

Billions of current dollars.





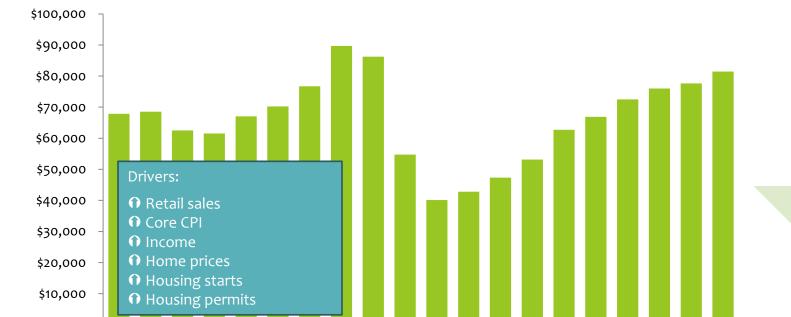




Retail is forecast to grow 5.4% annually over the next four years.

Retail construction put in place, 2000-2019f

Billions of current dollars. Source(s): FMI



2008

2006





2002

2004

2000

\$0



2018f

2016f

2012

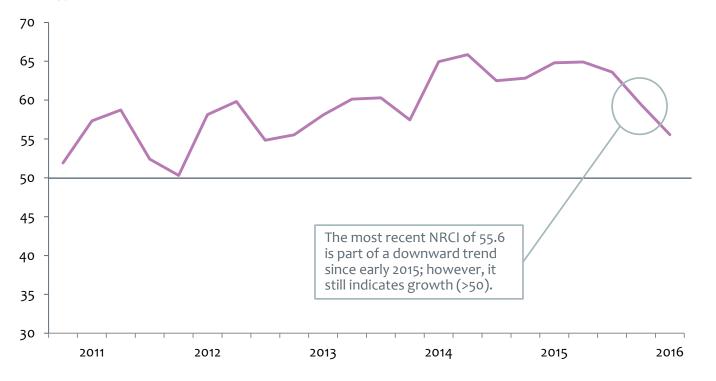
2014

2010

FMI's Q1 2016 NRCI declined slightly, but still indicates growth.

FMI Nonresidential Construction Index (NRCI), Q4 2010 to Q1 2016

Scores about 50 indicate expansion, scores below 50 indicates contraction. Source(s): FMI





systems outlook

Key trends





Electronic systems outlook

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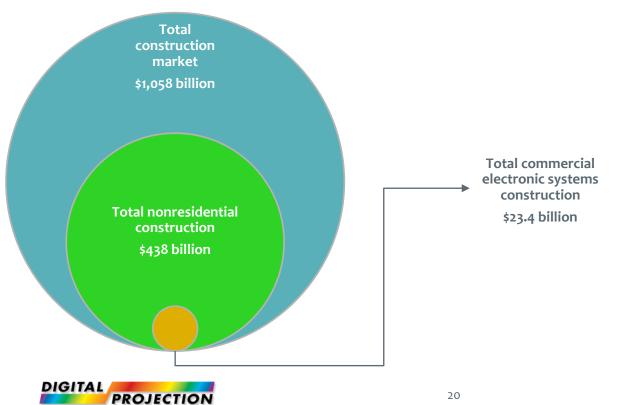


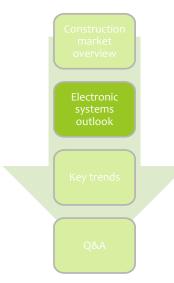


Commercial electronic systems account for 5.3% of total construction.

Nonresidential and electronic systems construction as a portion of total construction

Source(s): NSCA, FMI



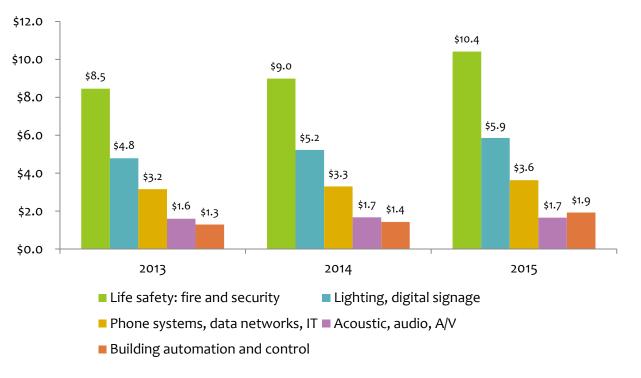






Building automation and control saw the largest percentage increase 2014-15.

Commercial electronic systems outlook, 2013-2015





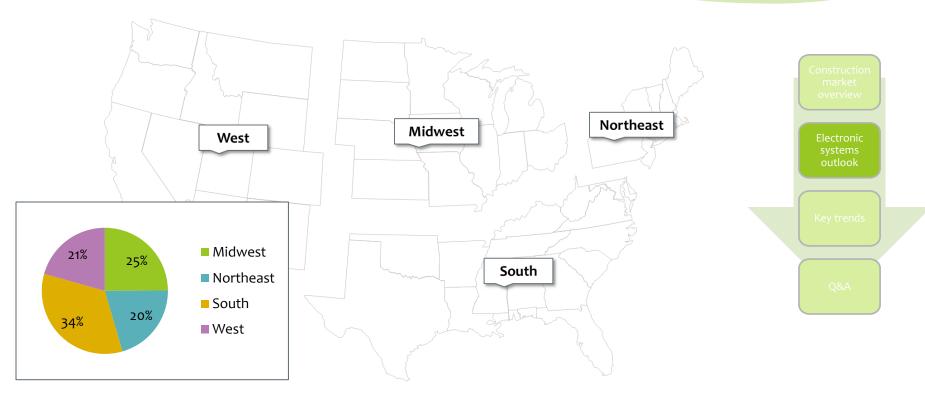




Commercial electronic systems activity is comparable across four regions.

Electronic systems construction by region, 2015

Source(s): NSCA, FMI







Key trends

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The shortage of skilled workers is intensifying.



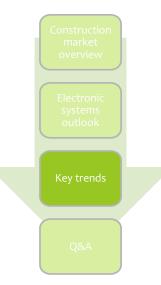






Connected lighting has finally taken off.

- Connected lighting refers to lighting systems that are wirelessly connected and send information on occupancy, activity patterns, changes in temperature or humidity, etc.
- Already widely used for street lights, facilities managers are showing increasing interest in implementing connected lighting solutions during building retrofits.
- Drivers:
 - Widespread use of LED lights
 - Drive towards energy efficiency
 - Increased concern for occupant comfort



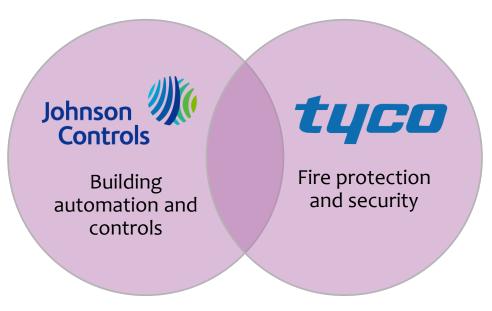




The Johnson Controls-Tyco merger—a sign of things to come?

"The technology is converging. That's the real opportunity that's coming along."

— Alex Molinaroli, CEO of Johnson Controls









Bundling of complementary services can be a source of differentiation.

- One service contract (instead of multiple service contracts) reduces the paperwork and administrative burden for your customers.
- Before bundling products or services together, ask yourself:
 - How unique is my product or service?
 - Is the customer's problem complex?
 - Can the quality of the service I offer be improved?
- Consider that bundling of products and services may be necessary in order to stay ahead of competition.
- A co-marketing arrangement with another firm, joint venture, or acquisition are all means of offering customers bundled products and services if you don't currently.



Source(s): Harvard Business Review





Q&A

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Questions?

