



US and Texas Construction Outlook Q1 2022

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RISK AND REWARD



Recovery or Recession

Should we be optimistic or concerned about the overall market near-term?



Bulls and Bears Coexist at All Times

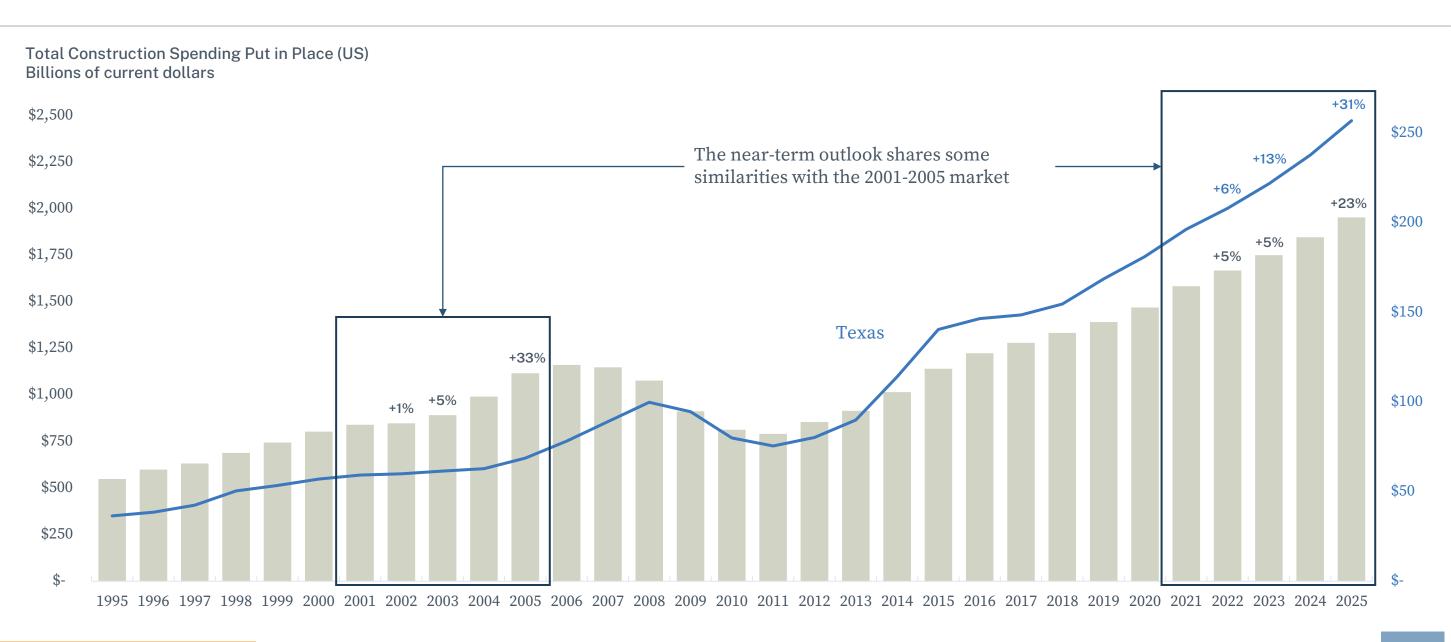
Where will the greatest opportunities present themselves?



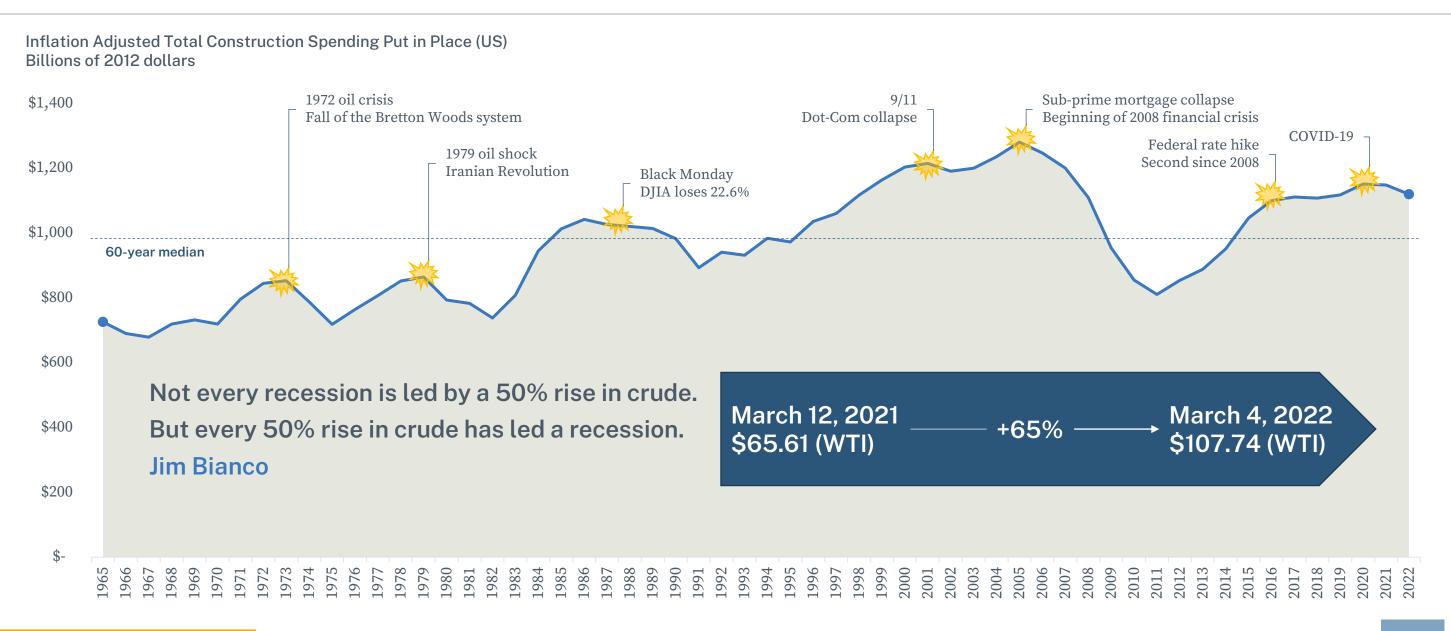
Bigger, Faster, Better

How will evolving project characteristics define competitive advantage?

DEMAND IS TEMPERED NEAR TERM BY SUPPLY CONSTRAINTS



NO EXPANSION DIES OF AN OLD AGE

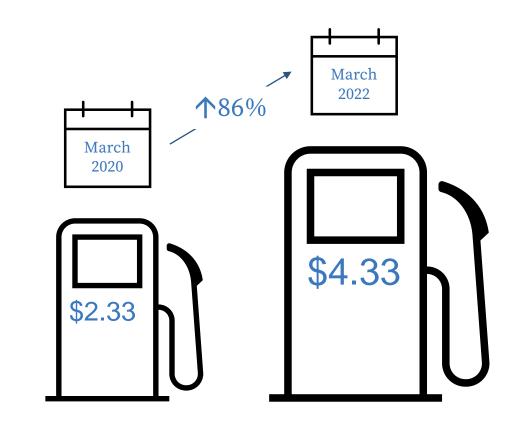


CONSUMER SPENDING COMPRISES 70% OF US GDP

Affordable Home Price Based on \$2,500 Monthly Payment Assumes 20% down, a 30-year mortgage, 1.25% property tax rate, 0.5% homeowners' insurance rate, and no HOA dues

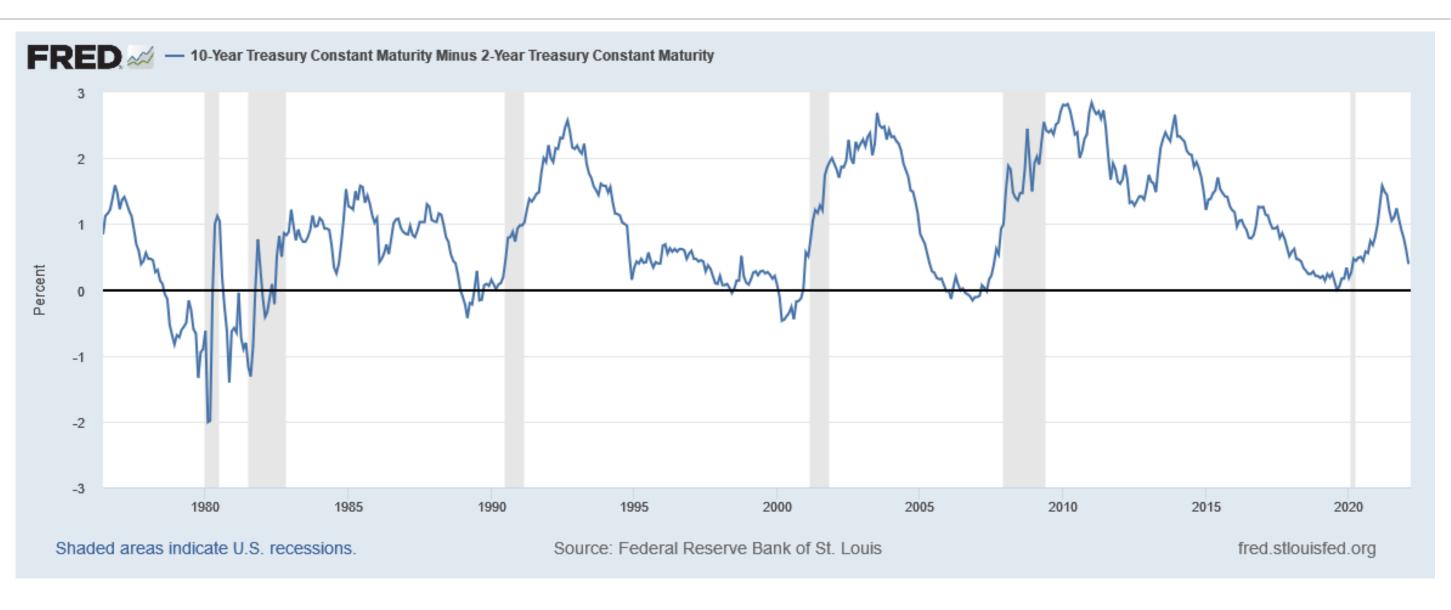
Average Price per Gallon Regular Unleaded Gas





More than 50% of the average household's monthly spending is on housing and transportation.

THE BEST "PREDICTOR OF RECESSION"... THE YIELD CURVE



A REASON TO BE "CAUTIOUSLY" OPTIMISTIC?



THE INDUSTRY IS BULL-"ISH" ON EXPANSION

AEC Sentiment Indices













Architectural Billings Index (ABI)

Nonresidential Construction Index (NRCI)

Construction Industry Round Table

CIRT Sentiment Index

MORE BULLS THAN BEARS

Construction Segment Spending (2022) and Forecast (2022-2025) for Texas Millions of current dollars (USD)



2022 Construction Spending (Millions)

High: \$21,865

Low: \$392

Median: \$6,918



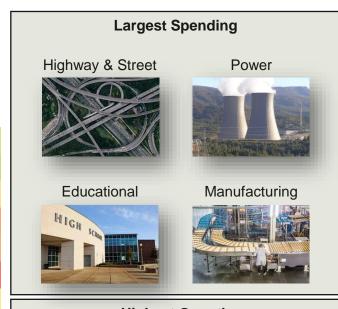
2022- 2025 Forecast Growth (CAGR)

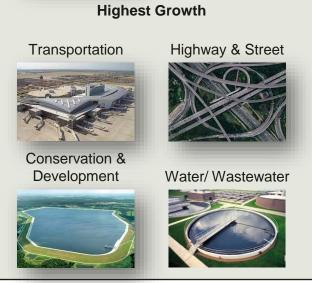
High: 12%

Low: 5%

Median: 7%

Segment	2022 Construction Spending (Millions)	2022- 2025 Forecast Growth (CAGR)
Multifamily	\$10,528	8%
Lodging	\$2,775	9%
Office	\$11,044	7%
Commercial	\$11,751	6%
Health Care	\$6,918	6%
Educational	\$14,482	5%
Religious	\$392	7%
Public Safety	\$1,789	5%
Amusement and Recreation	\$3,956	6%
Transportation	\$7,982	9%
Communication	\$3,234	7%
Manufacturing	\$12,150	7%
Power	\$21,865	6%
Highway and Street	\$16,606	12%
Sewage and Waste Disposal	\$5,859	11%
Water Supply	\$4,068	10%
Conservation and Development	\$1,958	10%







MORE THAN ONE-IN-THREE CONSTRUCTION DOLLARS ARE SPENT IN JUST 12 MARKETS

Total Construction Spending Put in Place Metropolitan Statistical Area (MSA); 2021-2025 sum

- Concentration of spending continues in fewer markets
- Old markets move down, and new markets move up
- Megapolitans can equal or rival metropolitans



1. New York



2. Los Angeles



3. Dallas



5. Phoenix



6. Washington, DC



7. San Francisco



8. Atlanta



9. Seattle



11. Chicago



12. Denver

13. Riverside

14. Austin

15. Boston

16. Philadelphia

17. Orlando 18. Tampa

19. Minneapolis

20. Charlotte



21. Portland 22. San Diego

39. Fort Myers

40. Cincinnati

42. Richmond

44. Pittsburgh

45. Cleveland

43. Virginia Beach

41. Provo



23. Sacramento

24. San Jose

25. Nashville

30. Raleigh

37. Sarasota 38. Boise

46. Charleston

54. Naples

269. Dalton 270. Chambers

55. Lakeland 56. Providence 57. Louisville

58. Honolulu 59. Stockton

60. Myrtle Beach

62. Grand Rapids

26. Las Vegas

27. Jacksonville

28. Detroit

29. San Antonio

31. Baltimore 32. Salt Lake City

33. Indianapolis 34. St. Louis

35. Columbus

36. Kansas City

47. Colorado Springs

48. Greenville

53. Memphis

49. Ogden 50. Oklahoma City

51. Tucson 52. Milwaukee

61. Columbia

63. New Orleans

64. Daytona Beach 65. Fresno

66. Reno

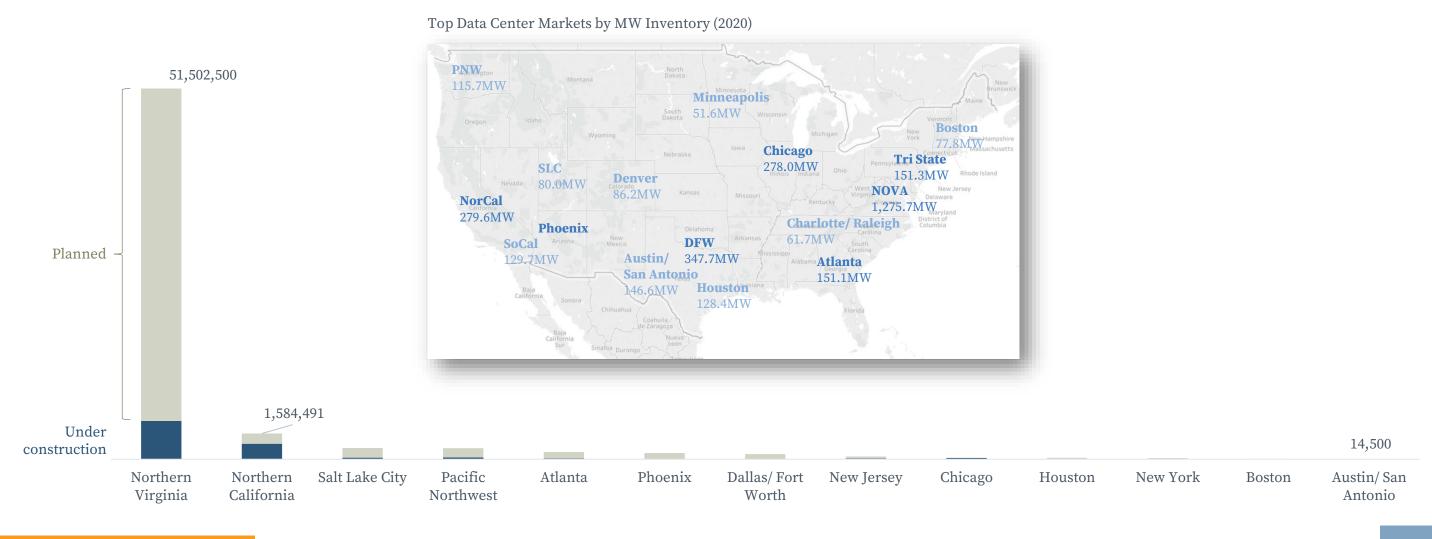
67. Port St. Lucie



227. Fort Smith

WHAT IS A MARKET?

Square Feet of Data Center Under Construction and Planned



TEXAS CONTINUES TO OUTPACE THE US

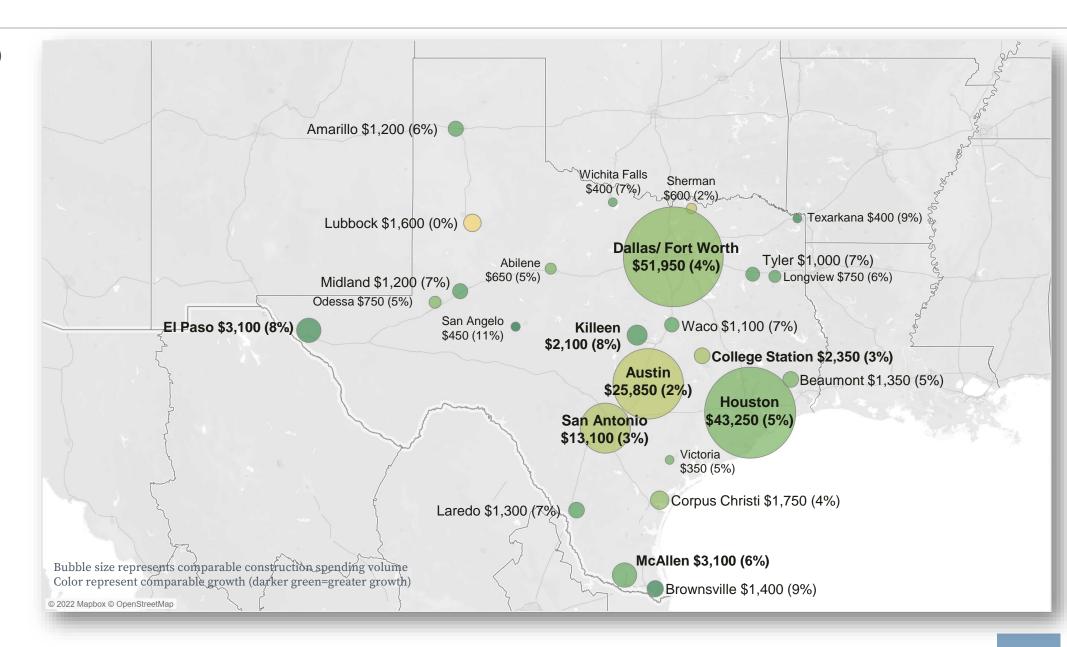
Total Construction Spending Put in Place (2022) Forecast Growth (2022- 2025) MSA; Millions of current dollars

What contributes most to recent and forecast growth?

- Population growth
- Well educated labor force
- Corporate headquarters/ relocations
- Oil and gas dominance
- Logistical hub

What are the greatest risks to continued expansion?

- Global trade
- High tech industry volatility
- Political unpredictability (e.g., military, oil & gas)
- Affordability



BIGGER, FASTER, BETTER

What project characteristics should we expect over the next several years?

Bigger	Faster	Better
Megaprojects consume an increasing share of construction spending	Project schedules continue to compress	When alternative delivery becomes normal delivery
 Annual megaproject CPiP is expected to increase almost 500% over the next five years, growing from slightly more than \$50 billion to just almost \$300 billion. Over the next decade, annual megaproject spending is expected to increase nearly 600%, reaching just over \$350 billion. Total annual megaproject spend as a percent of 	 Accelerated schedule and schedule certainty are increasingly influencing contractor selections. This is particularly true in mission critical and time sensitive industries. For nonresidential building projects valued over \$25 million, the average schedule has shortened by over a year during the past decade. 	 Alternative delivery methods have experienced continued growth since 2015; up 67%. It is anticipated that alternative delivery methods will increase at a compound annual growth rate of 8% CAGR over the next five years. As legislation has enabled greater use of alternative methods, and familiarity with these
 total CPiP is expected to increase from 10% in 2020 to just over 20% by 2023 and remain stable between 20% and 25% through end of the decade. More than \$2.5 trillion in megaprojects are currently in planning or design through 2050 		methods has grown, these methods are anticipated to represent over 60% of spending over the forecast period. Industry stakeholders consistently identify the ability to deliver a project in an expedited manner as a main driver of alternative delivery

method utilization.

WHAT ELSE SHOULD WE BE CONSIDERING?





Adopt a product agnostic mindset





Recruit the people you have





Buy out as early as possible





Develop scenarios based on sustained 10% to 15% increase in cost





Leverage technology to mitigate, supplement, and eliminate





Build your network





Remember what's not going change in the next five to 10 years

Thank you



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Jay Bowman, Partner & Managing Director of Research & Analytics

As a Partner with FMI, Jay Bowman assists a broad range of stakeholders in the construction industry, from program managers and general contractors to specialty trades and materials producers, with the identification and assessment of the risks influencing the strategic and tactical decisions they face. In this role, Jay's primary responsibilities include research design and interpretation, based on developing an understanding of the context within which these organizations operate. These draw upon many of the research services he oversees, including market sizing and forecasting, buying practices and preferences and competitive behaviors and response.

Publications to Jay's credit include: FMI's annual U.S. Markets Construction Overview, "Influencers in Construction," "Assessing Your Alternatives: Should we expand the business?," "Incorporating Customer Perceptions in Strategy Development" and "Conditions Ripe for Increased Use of Program Management.

Jay earned his master of business administration degree from East Carolina University. He received undergraduate degrees from the University of Georgia in risk management and insurance. Prior to joining FMI, he worked with Aon Risk Services in Atlanta, Georgia.

Thought Leadership

The Changing Game of Strategy



The Last Normal Day



Downright Dangerous Decisions



Our Latest Construction Outlook - <u>Download</u>





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