Citi
Investor Meeting

Tulsa
Dec. 15, 2016

MAGELLAN®
MIDSTREAM PARTNERS, L.P.
www.magellanlp.com | NYSE: MMP

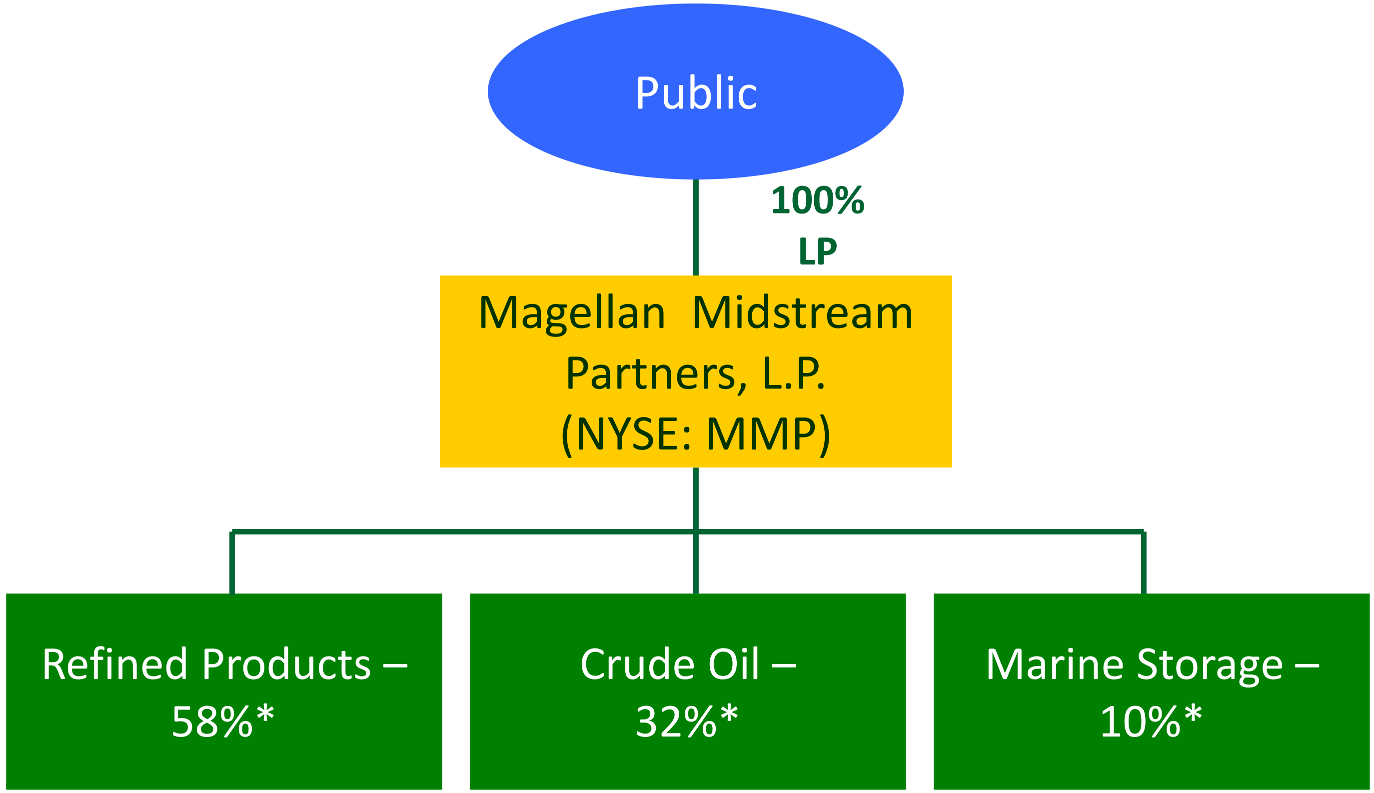
Moving What Moves America®

Forward-Looking Statements

Portions of this document constitute forward-looking statements as defined by federal law. Although management believes any such statements are based on reasonable assumptions, there is no assurance that actual outcomes will not be materially different. Among the key risk factors that may have a direct impact on the partnership's results of operations and financial condition are: (1) its ability to identify growth projects or to complete identified projects on time and at expected costs; (2) price fluctuations and changes in demand for refined petroleum products, crude oil and natural gas liquids, or changes in demand for transportation or storage of those commodities through its existing or planned facilities; (3) changes in the partnership's tariff rates or other terms imposed by state or federal regulatory agencies; (4) shut-downs or cutbacks at major refineries, petrochemical plants, ammonia production facilities or other businesses that use or supply the partnership's services; (5) changes in the throughput or interruption in service on pipelines owned and operated by third parties and connected to the partnership's terminals or pipelines; (6) the occurrence of an operational hazard or unforeseen interruption; (7) the treatment of the partnership as a corporation for federal or state income tax purposes or if the partnership becomes subject to significant forms of other taxation; (8) an increase in the competition the partnership's operations encounter; (9) disruption in the debt and equity markets that negatively impacts the partnership's ability to finance its capital spending and (10) failure of customers to meet or continue contractual obligations to the partnership. Additional information about issues that could lead to material changes in performance is contained in the partnership's filings with the Securities and Exchange Commission, including the partnership's Annual Report on Form 10-K for the fiscal year ended Dec. 31, 2015 and subsequent reports on Forms 8-K and 10-Q. The partnership undertakes no obligation to revise its forward-looking statements to reflect events or circumstances occurring after today's date.

Structure = Competitive Advantage

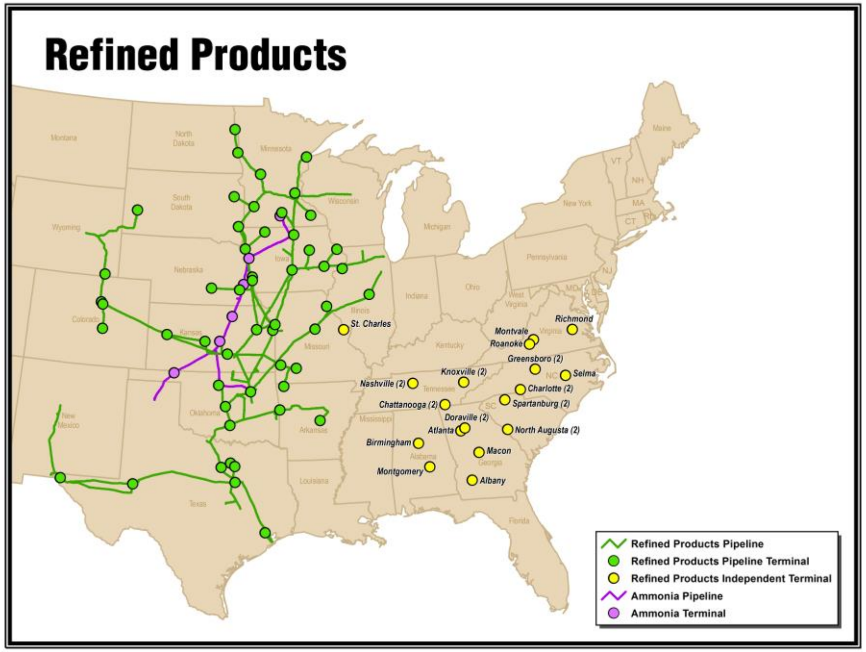
- Investment grade MLP with no incentive distribution rights
  - Provides MMP a simple organizational structure and one of the lowest costs of capital in the MLP space



* Percentage of ytd 3Q16 operating margin

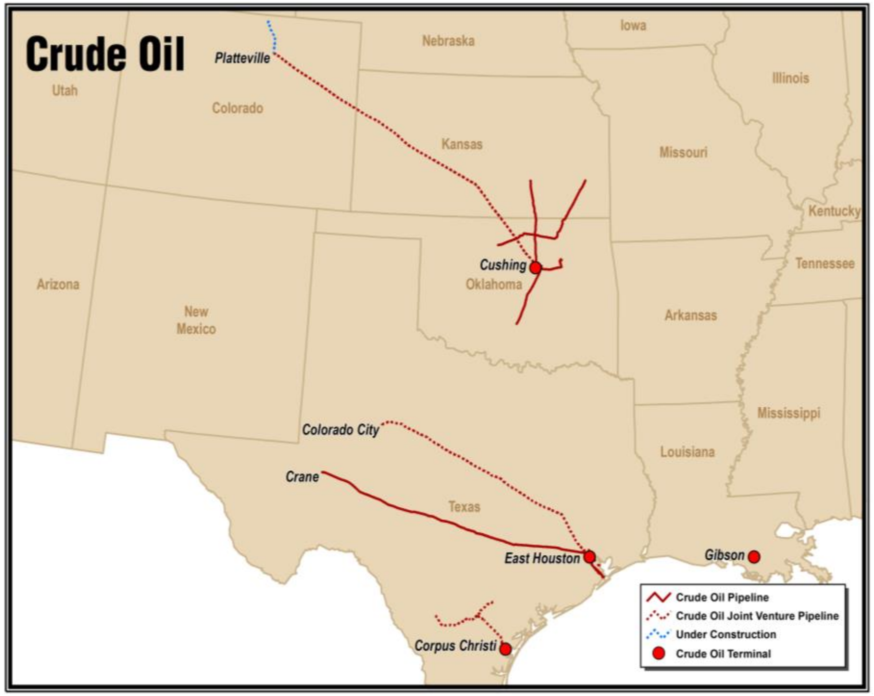
Refined Products

- Longest refined products pipeline system, primarily transporting gasoline and diesel fuel, with 9,700 miles, 53 terminals and 42mm barrels of storage
- Profit driven by throughput volume and tariffs
  - Tariff changes related to Producer Price Index; increased tariffs by 4.6% in mid-2015 and average 2% increase in mid-2016
- Strong competitive position and stable business platform due to breadth of system (can access nearly 50% of refining capacity) and independent service provider model



Crude Oil

- 2,100 miles of crude oil pipelines, substantially backed by long-term throughput commitments
- 23mm barrels of total crude oil storage, including 15mm barrels used for leased storage
  - One of the largest storage providers in Cushing, OK



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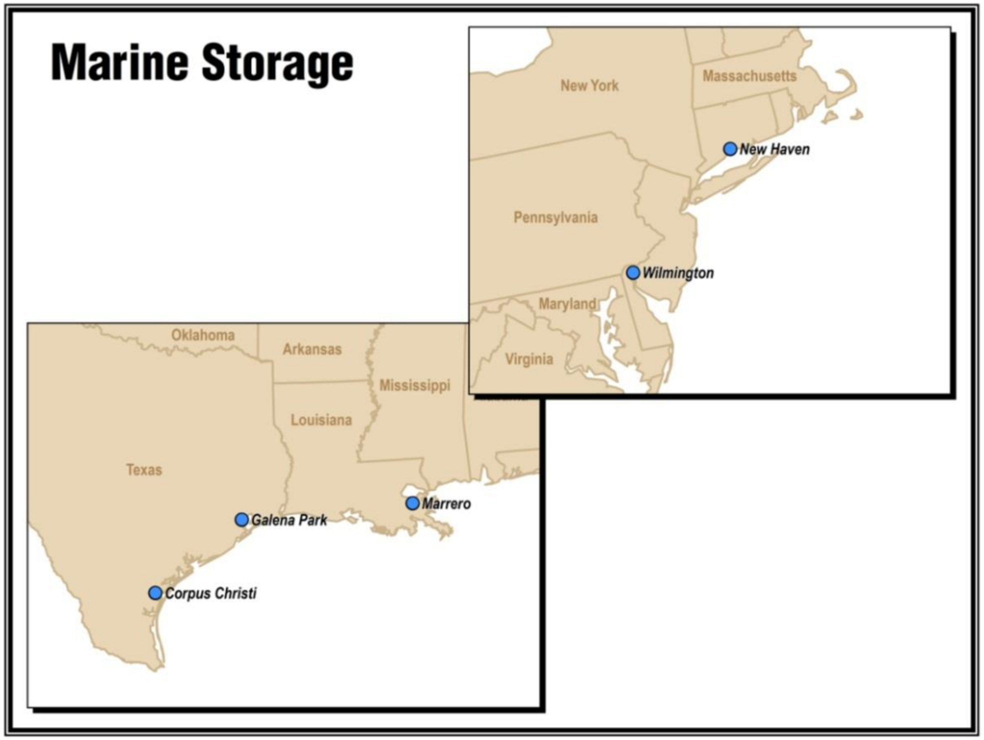
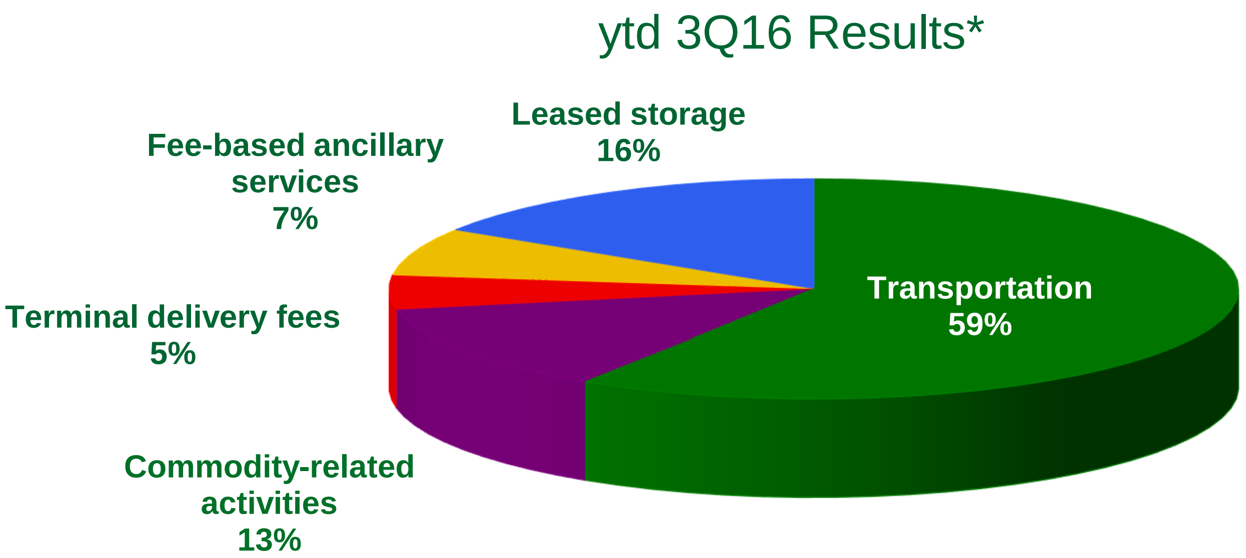
Marine Storage

- 5 storage facilities with 26mm barrels of aggregate storage, supported by long-term agreements
- Utilization rates typically greater than 90%
- Strong demand due to market structure, pricing volatility and connectivity



Primarily Fee-Based Business

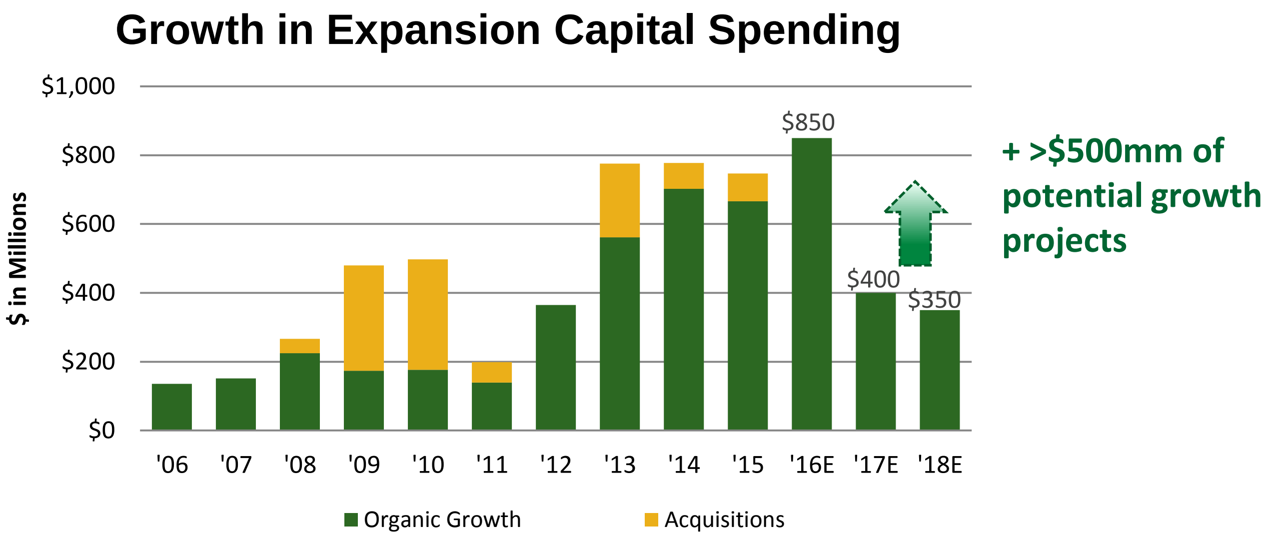
Expect Future Fee-Based, Low Risk Activities to Comprise 85% or More of Operating Margin



* Operating margin represents operating profit before depreciation & amortization and general & administrative costs; excludes unrealized mark-to-market and other commodity-related adjustments

Growth in Expansion Capital Spending

- Over the last 10 years, Magellan has invested $4.4 billion in organic growth projects and acquisitions
- Expect to spend $1.6 billion in 2016-2018 on construction projects currently underway
- Many opportunities exist for continued growth:
  - Continue to evaluate well in excess of $500mm of potential growth projects
  - Potential acquisitions always under review
  - Management committed to maintaining disciplined approach for future growth



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Little Rock Pipeline

- Recently extended reach of refined products pipeline system from Ft. Smith to Little Rock, AR
  - Provides Little Rock access to refined products from both Mid-Continent and Gulf Coast refineries
- Began commercial operation July 2016
- Supported by long-term, take-or-pay commitments representing slightly less than 50% of 75k bpd capacity
- $200mm capital spending
- 8x EBITDA multiple, with significant upside expected
- Connecting to third-party pipeline to add West Memphis delivery option starting mid '17

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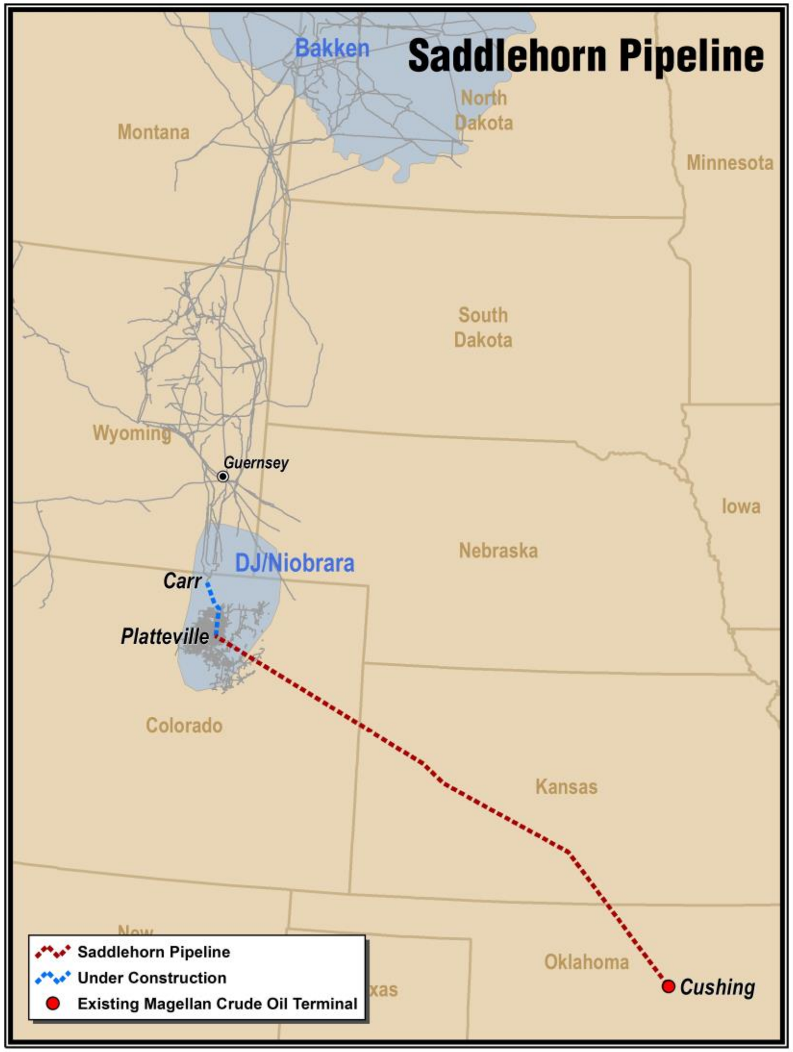
Saddlehorn Pipeline

- Joint venture to deliver crude oil from DJ Basin and potentially broader Rocky Mtn region to Cushing
  - 600-mile pipeline with initial capacity of 190k bpd (max capacity up to 300k bpd)
  - Ownership structure: Magellan 40%, Plains 40%, Anadarko 20%
- Platteville-to-Cushing segment operational Sept. 2016, expect Carr extension to be complete by early 2017
- Binding commitments received from Anadarko and Noble
  - Total annual committed volume <50% of capacity (ramps from 40k to 80k bpd over 5 years), providing significant upside potential
- $230mm for MMP's share of project cost
- 8x average EBITDA multiple based on ramp of committed volumes only



Corpus Christi Condensate Splitter

- Magellan is constructing a 50k bpd condensate splitter at our Corpus Christi terminal
- Fee-based project, fully committed with long-term, take-or-pay agreement with Trafigura
- $300mm spending: 65% of cost related to terminal infrastructure, such as storage and pipeline connectivity
- Mechanically complete during Oct, currently working to commission unit to meet contractual deadlines
- Average EBITDA multiple of 6x expected

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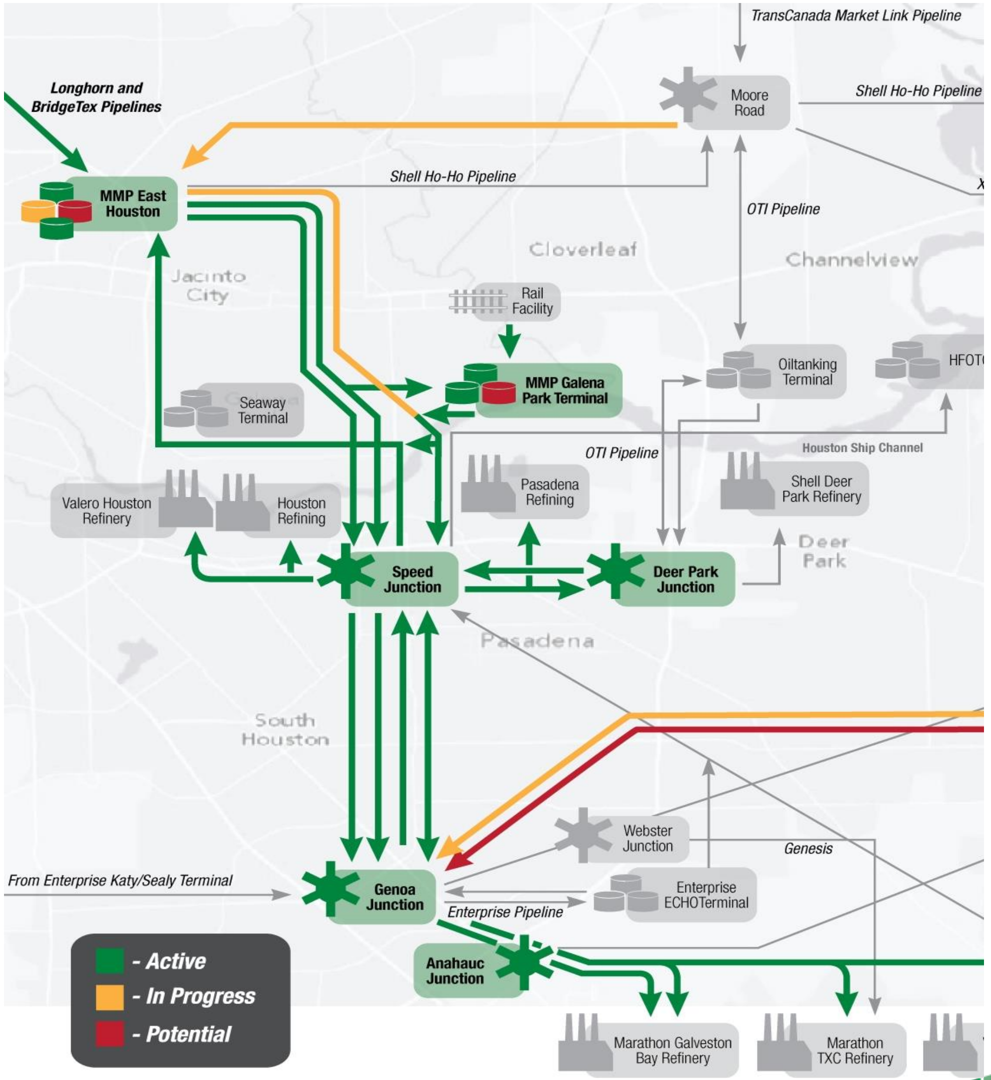
Butane Blending Growth Projects

- Pursuing opportunities to maximize volumes and margins for butane blending
  - Powder Springs JV with Colonial Pipeline to blend butane into gasoline at Colonial's Atlanta hub beginning early 2017
  - Addition of rail receipt capabilities at Colorado terminal to improve butane logistics costs in late 2017
  - Other misc. projects to expand blending capabilities system-wide

- Combined expansion spending of $80mm at 6x average EBITDA multiple in current commodity environment

Houston Distribution System Enhancements

- HoustonLink joint venture with TransCanada to be operational in first quarter 2017
  - Improves Magellan's connectivity by providing Marketlink shippers access to MMP's Houston distribution system
  - MMP's share of capital spend almost $50mm, including enhancements to our facility, generating 10x EBITDA multiple while increasing strategic value of our system
- Recently announced $70mm investment to build a new 24-inch diameter pipeline from MMP's East Houston terminal to Holland Avenue to handle incremental volumes from various sources
  - Expect to be operational mid-2018



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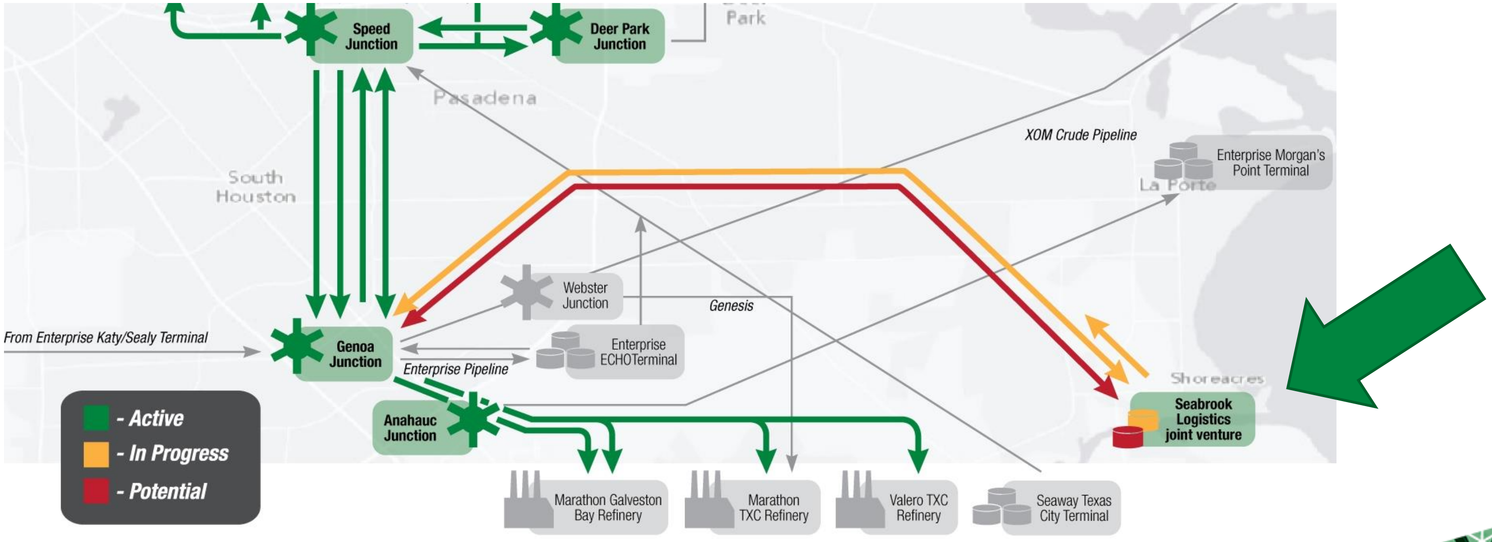
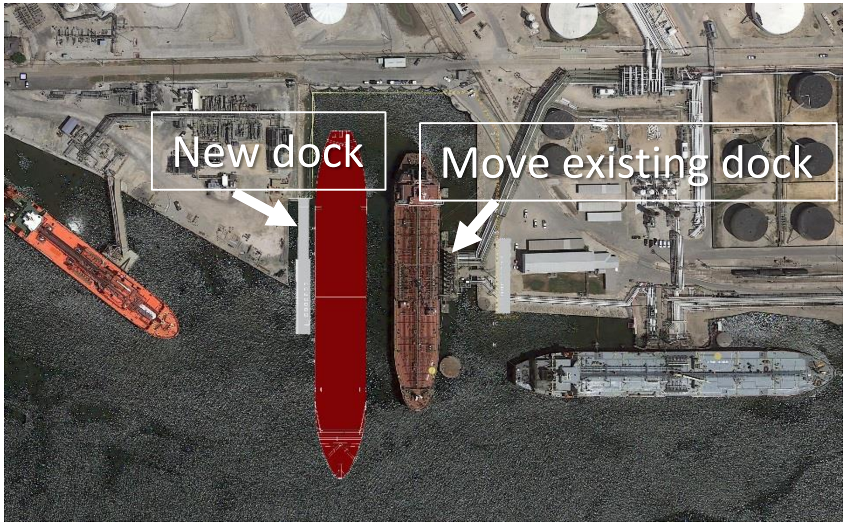
Seabrook Logistics Joint Venture

- 50/50 joint venture with LBC Tank Terminals
  - Phase 1: Construction of 700k bbls of crude oil storage and pipeline infrastructure to connect to third-party pipeline for ultimate transport to Houston-area refinery
    - ➢ MMP's share of capital spend almost $50mm; Expect to be operational 1Q17
  - Phase 2: Recently announced additional 1.7mm bbls of crude oil storage and connectivity to MMP's Houston crude oil distribution system
    - ➢ MMP's share of capital spend $125mm; Expect to be operational mid-2018
  - Potential opportunity for 3mm more bbls of storage, an additional Aframax-capable dock and second connection to MMP's Houston crude oil pipeline system



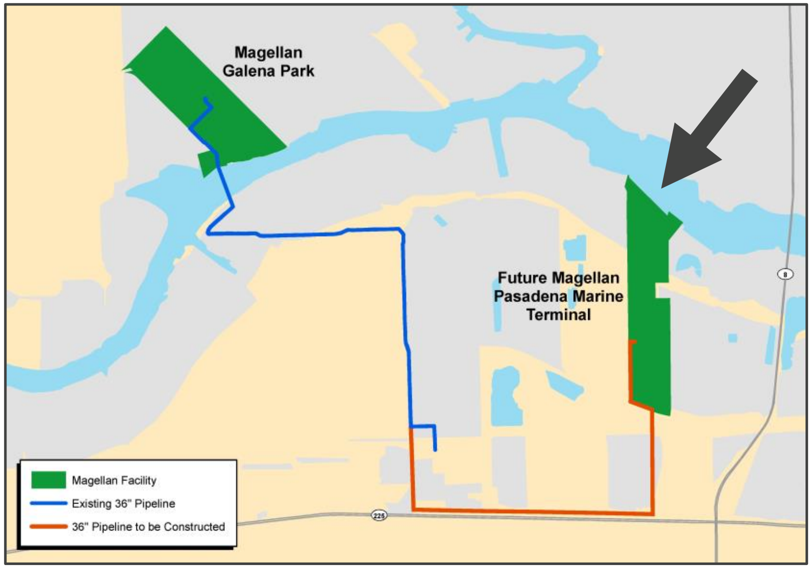
Galena Park Dock Expansion

- To meet increased demand for export capabilities, Magellan is adding a 5th dock at its Galena Park marine terminal
  - Multi-phase project to build new dock capable of handling Panamax-sized ships and barges with up to a 40-foot draft
  - Incremental dock capabilities fully operational by late 2018
  - Recently connected Galena Park to MMP's Houston crude pipeline system
  - Expect to increase storage rates as contracts renew to bring more inline with market, generating 9x average EBITDA multiple on $115mm investment, with upside potential



Pasadena Marine Terminal

- Recently announced plans to construct a new marine terminal in Pasadena, Texas
- Initial project includes 1mm bbls of refined products and ethanol storage, marine dock and pipeline connectivity to existing Galena Park facility
- $335mm capital spend supported by long-term customer commitment, generating 12x EBITDA multiple on initial phase and providing platform for significant future growth
- Expect to be operational in early 2019
- Facility could be expanded to include up to 10mm bbls of storage and 5 docks, representing potential investment of ~$1 billion at 8x EBITDA multiple



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Potential Expansion Projects

- Magellan has continually been able to keep its potential growth project list well in excess of $500mm even as projects are completed and placed into service
  - Healthy mix of refined products and crude oil opportunities
  - Stated goal to increase marine infrastructure capabilities, including possible new storage in Corpus Christi and expansion of recently-announced Pasadena marine terminal and Seabrook Logistics joint venture
  - Considering additional refined products pipeline opportunities
  - Pursuing potential gathering options to strengthen our long-haul crude oil pipelines
  - Targeting 6-8x EBITDA multiple but will consider higher multiples for strategic value creation

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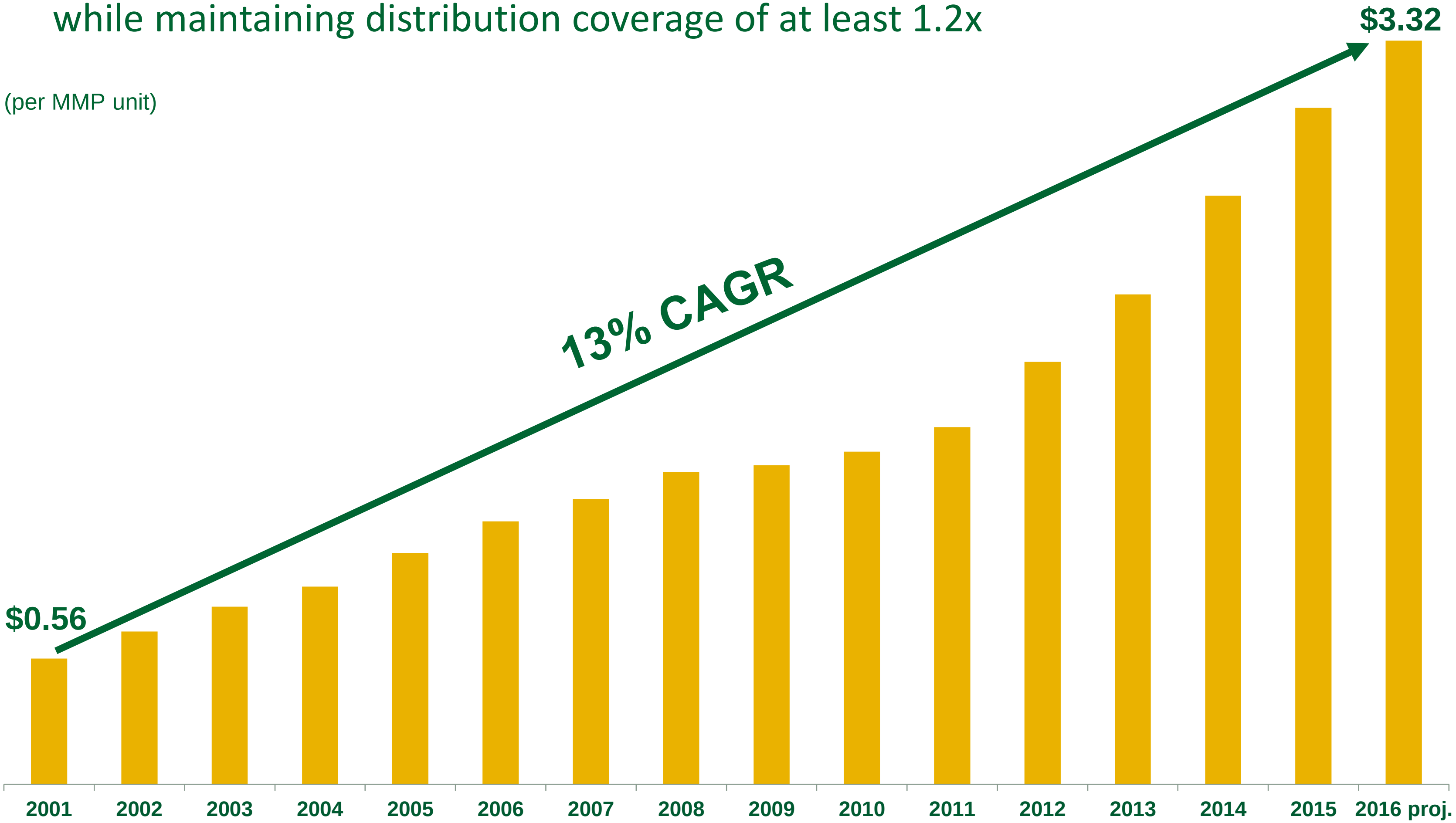
Distribution Growth Trend

- Proven history of distribution growth with 58 quarterly increases since IPO
- Targeting 10% annual distribution growth for 2016 and at least 8% for 2017 while maintaining distribution coverage of at least 1.2x



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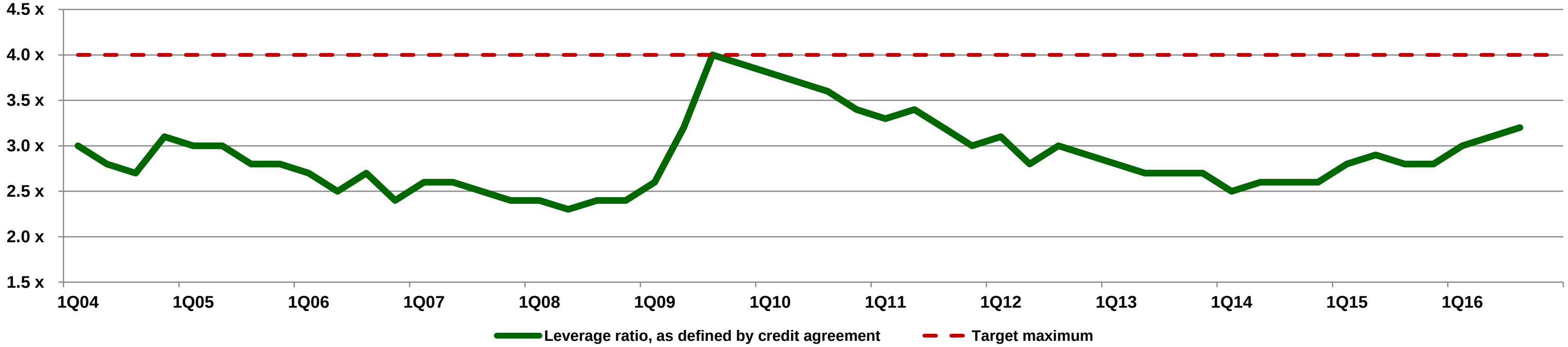
Conservative Financial Profile

- Committed to maintaining solid balance sheet
  - Currently, one of the highest-rated MLPs at BBB+ / Baa1
- Targeting distribution coverage of at least 1.1x on long-term basis, 1.2x near term
  - DCF of $943mm in 2015 provided coverage of 1.4x (>$250mm excess cash)
  - DCF guidance of $925mm for 2016 with coverage of 1.2x ($170mm excess cash)
- Leverage ratio of $\leq$ 4x
  - History of maintaining sector-leading credit metrics
  - No equity issuances anticipated to fund current growth projects; however, will capitalize as necessary to stay within leverage target if material potential projects come to fruition
  - Significant liquidity with $1 billion credit facility, $250mm 364-day facility and commercial paper program



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Magellan Summary

- Proven history of exceptional returns and distribution growth
- Straight-forward, stable business model
- Forecasted strong distributable cash flow generation with solid distribution coverage
- Conservative, disciplined management team
- Financial flexibility and low cost of capital
  - Strong investment-grade balance sheet
  - No incentive distribution rights
- Attractive growth opportunities, current and potential