

### Southern California Appraisal Institute

**Market Trends Seminar** 

February 1, 2018







- #1 residential data provider
- Largest US geographic footprint including
  - 890 CBSAs | 2,483 Counties
- Metrostudy survey markets
  - Top 25 construction CBSAs
    - 27,000 active subdivisions
    - 36,000 future subdivisions
    - 3.2 million individual parcels
  - 76% of US new home construction
  - Exclusive consumer demographics insights
  - 25 regional offices
  - 500 surveyors

#### NATIONAL & LOCAL EXPERIENCE & EXPERTISE

#### **Topics For Today**



- 1. Mobility On Demand
- 2. Where Are We In the Cycle?
- 3. Tax Reform and California Affordability
- 4. Industry Trends
- 5. Interest Rates
- 6. Southern California Housing Market Trends
- 7. Southern California Pricing Trends





### Mobility On Demand





#### The Age of Driverless Vehicles

- Pay as you go mobility.
- Car use and ownership is being unbundled.
- Six billion ride hailing trips annually rising to 30 billion by 2030.
- Per capita trips (all vehicles) is 2.2 trips per day.
- The technology has arrived!





#### The Development Premise of Driverless Vehicles

#### THE DEVELOPERS PREMISE:

Our project (PICK LAND USE) doesn't need much parking? Everyone will arrive by driverless cars.

Residential

**Apartment** 

Retail

Office

Commercial

**Industrial** 

#### WHAT IS THE REALITY?





#### Personal Vehicle Ownership



Characteristics	Disadvantages
Convenience	Low Utilization (5% per year)
Availability	Loss of use during servicing, no peak period premium
Accommodations	User selected
User Costs	Owner bears all costs, some sharing, owner pays parking and financing.
Driver	Can't multi-task (much)
Maintenance	Owner Funded
Operator Costs	All, owner is the operator

Total cost is substantial, asset is steadily depreciating, cost per year is not fully correlated to use.





#### Commercial Taxi Operations



Characteristics	Disadvantages
Usually convenient	Users must compete on the street
Usually readily available	Primitive internet hailing technology
Accommodations are known in advance	Driver Maintenance (often lacking)
User Costs	Moderate, some sharing, not lowest cost
Driver	Often subpar
Maintenance	Company funded
Operator Costs	Significant, inefficient use of car and drivers.

Lots of suboptimal vehicles and drivers, high cost per mile but you only pay when using.





#### Uber, Lyft and Didi Services



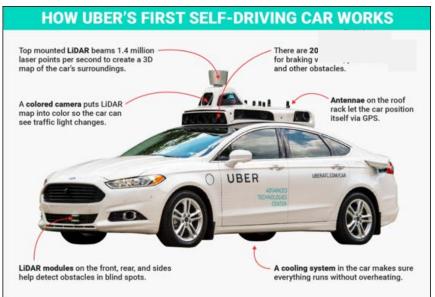
Characteristics	Disadvantages
Convenience	Use as needed
Availability	Good hailing technology
Accommodations	Driver Maintained (Usually decent)
User Costs	Modest, higher at peak periods
Driver	Usually decent, often good
Maintenance	Owner funded
Operator Costs	Operator bears all and tends to underestimate. Is the business model profitable and sustainable?

Won't the cost drop by half if we go driverless and eliminate the person?





#### Commercial Driverless Car Operations



Characteristics	Disadvantages
Convenient	Use as needed (assume good convenience), will operators focus on highest profit routes?
Availability	Good hailing technology assumed
Accommodations	Shared or individual user? Cramped or spacious? Are you the first or last pickup?
User Costs	5X to 10X that of Uber
Driver	No personal aspect
Maintenance Costs	Company funded
Operator Costs	Likely to be significant, complex systems, lots of technology, costly to purchase vehicles, expensive to update and upgrade cars and systems, high regulatory influence.

An enterprise level operation with company ownership, maintenance and route servicing. High costs may reduce disruptive potential lessening the ability of architects, land planners and municipalities to drastically cut back on parking.



#### The Age of Driverless Vehicles



- Regional urban phenomena, not suburban or rural,
- Only feasible in wealthy cities,
- Need dense population for a sufficient user base,
- Expect random transportation patterns,
- Commuters will use public transportation due to cost of service,
- Per mile cost of "commercial driverless" will be 5X to 10X personal car costs,
- Ride hailing has a "light" regulatory touch, driverless is institutional,
- Car manufacturers are likely to enter as service providers, with a profit motive,

Understand the market before you convert driverless property designs into real estate value.





Where Are We In The Cycle?

#### ECONOMIC REPORT CARD



Figure 2: Credit Suisse Recessionary Indicators Dashboard							
Start of	Yield	Inflation	Labor	Credit		Earnings	Housing
Recession	Curve	Trends	Market	Perform	ISM Mfg.	Quality	Market
Nov-73	1	1	1	1	1		1
Jan-80	1	1	1	1	1		1
Jul-81	1	1	1	1	1		1
Jul-90	1	1	1	1	1	1	1
Mar-01	1	1	1	1	1	1	<b>⇔</b>
Dec-07	1	1	<b>⇔</b>	1	1	1	1
Present	1	♪	♪	♪	⇧	♪	⇧
Key:							

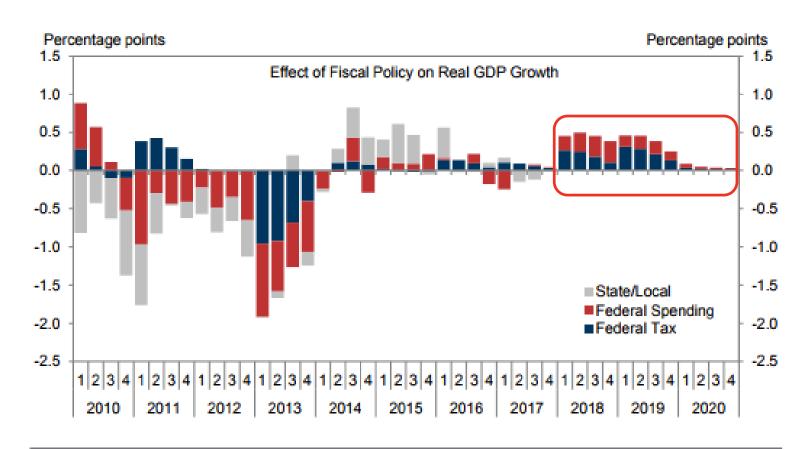
Source: Standard & Poor's, Federal Reserve, Bureau of Labor Statistics, National Statistical Agencies, National Bureau of Economic Research, ISM, Census Bureau, Haver Analytics®, Credit Suisse



#### TAX REFORM WILL BOOST GDP



Exhibit 5: A Modest Boost from US Tax Reform

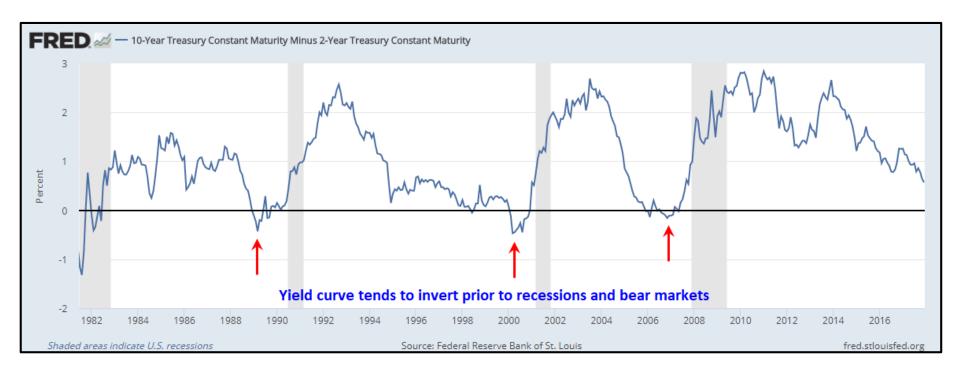


Source: Goldman Sachs Global Investment Research



## TREASURY SPREADS OFFER INSIGHT INTO CYCLE MATURITY

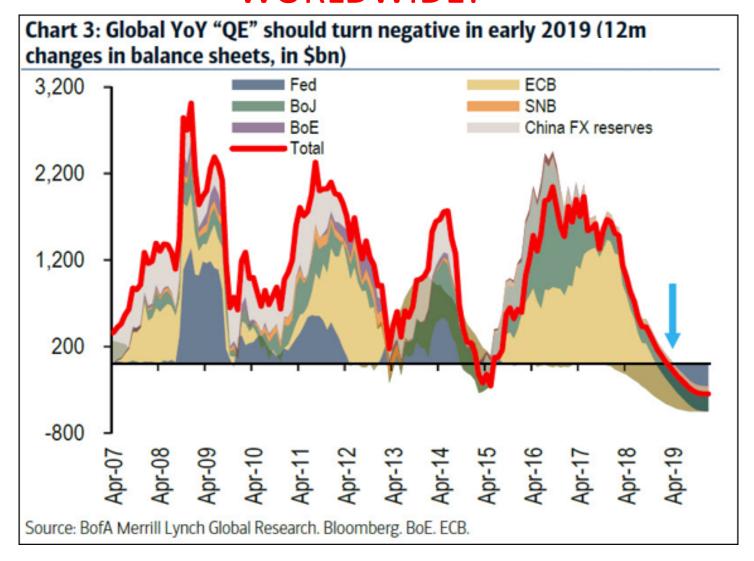






# QUANTATITIVE EASING HAS RUN ITS COURSE WORLDWIDE!

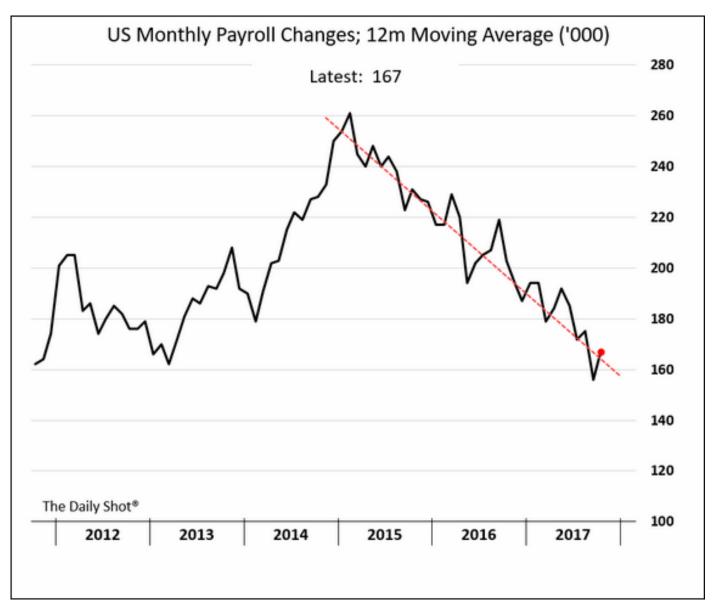






#### EMPLOYMENT GROWTH IS SLOWING

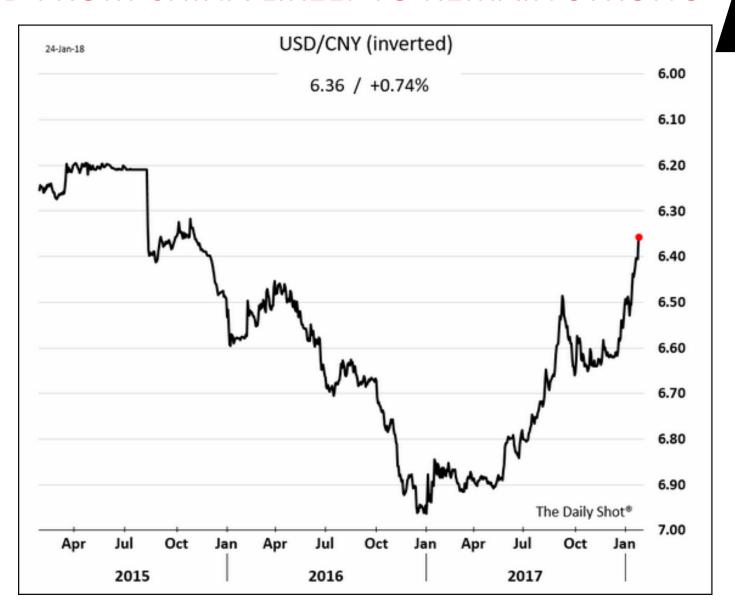






#### DEMAND FROM CHINA LIKELY TO REMAIN STRONG







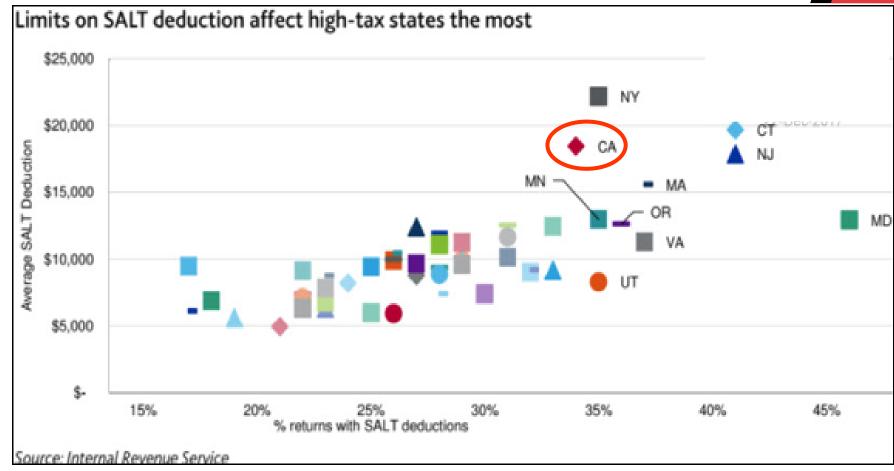


#### Tax Reform



#### STATE & LOCAL TAX DEDUCTIONS







## TAX REFORM DECREASES DISPOSABLE INCOME IN CALIFORNIA



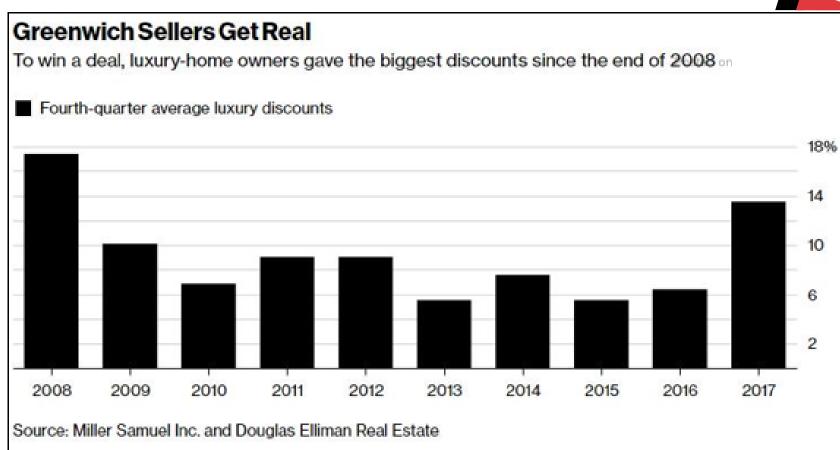
How California Tax Liability Increases Compared to 2017

Property Tax Component (1)				
Sales Price	\$500,000	\$750,000	\$1,000,000	\$1,500,000
Property Taxes @ 1.75%	\$8,750	\$13,125	\$17,500	\$26,250
Non-Deductible Property Taxes Over \$10,000 Limit	-\$1,250	\$3,125	\$7,500	\$16,250
Mortgage Interest Component (2)				
Loan Amount @ 75% LTV	\$375,000	\$562,500	\$750,000	\$1,125,000
Year 1 Interest @ 4.5%	\$16,875	\$25,312	\$33,750	\$50,625
Non-Deductible Interest over \$24,000 Limit	-\$7,125	\$1,312	\$9,750	\$26,625
Year 1 Total Increase in Ownership Costs	\$0	\$4,437	\$17,250	\$42,875
Income Tax Component (3)				
Household Income @ 30% of Loan Amount	\$112,500	\$168,750	\$225,000	\$337,500
State Income Tax at Applicable Rate	\$11,588	\$17,381	\$23,175	\$38,138
Non-Deductible Taxes (1 + 2 + 3)	\$3,213	\$21,818	\$40,425	\$81,013
Non-Deductible Taxes as % of Sales Price	0.64%	2.91%	4.04%	5.40%



#### FIRST READINGS FROM TAX REFORM





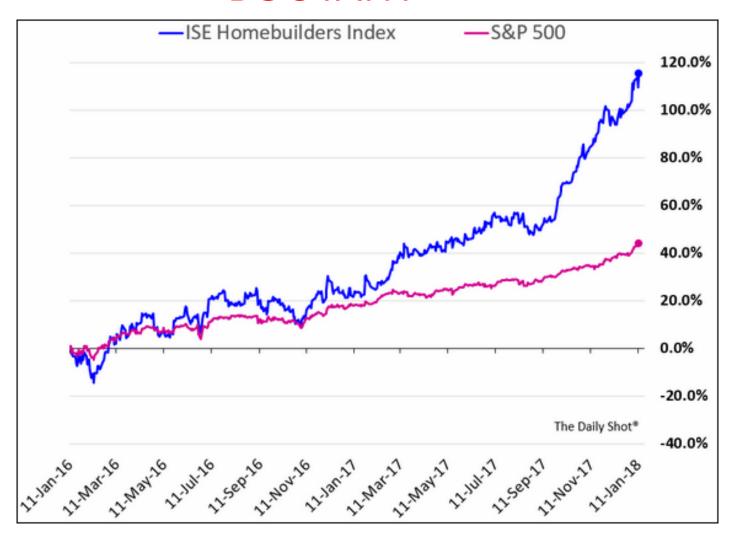




# Industry Trends in Homebuilding

# HOMEBUILDER VALUATIONS ARE BOUYANT



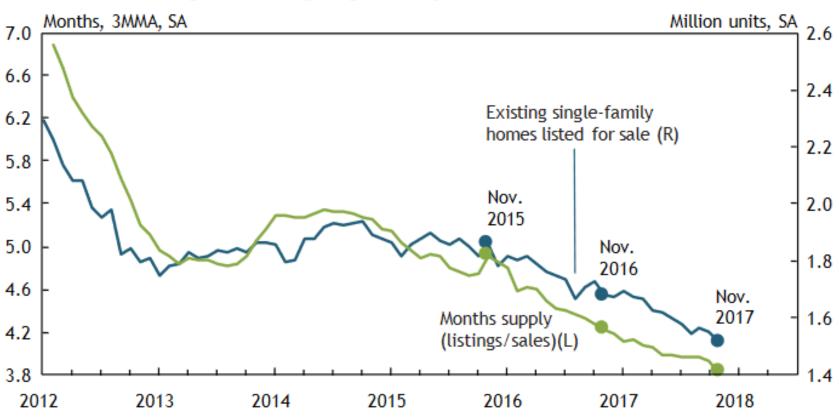




#### EXISTING HOME INVENTORIES ARE VERY LOW







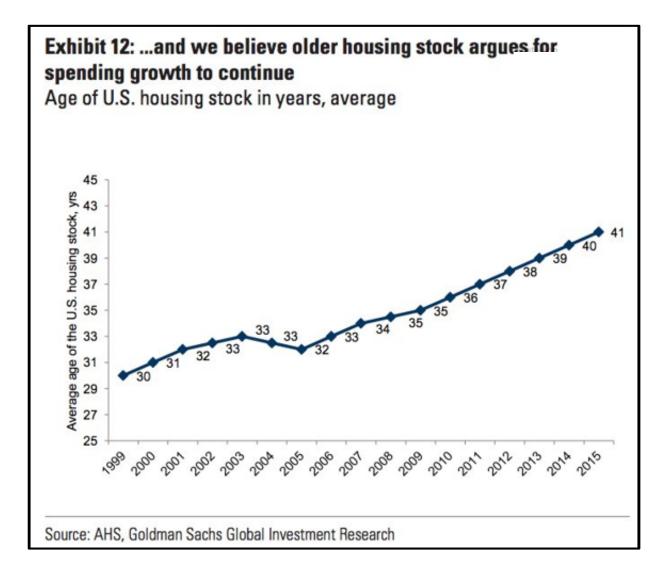
Note: Months supply shown above differs from the value released by the National Association of Realtors because of seasonal adjustment and smoothing.

Source: National Association of Realtors (Haver Analytics).



#### U.S. HOUSING STOCK CONTINUES TO AGE

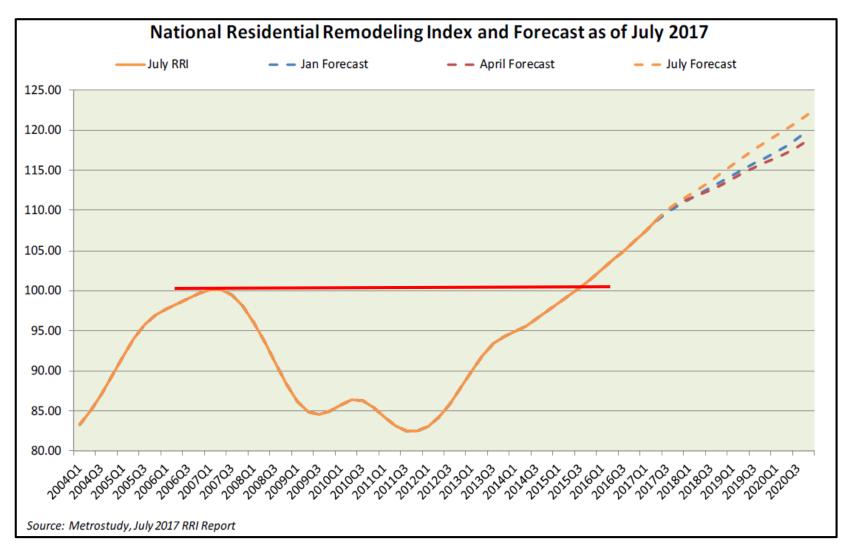






# LACK OF NEW HOMES LEADS TO A SURGE IN REMODELING



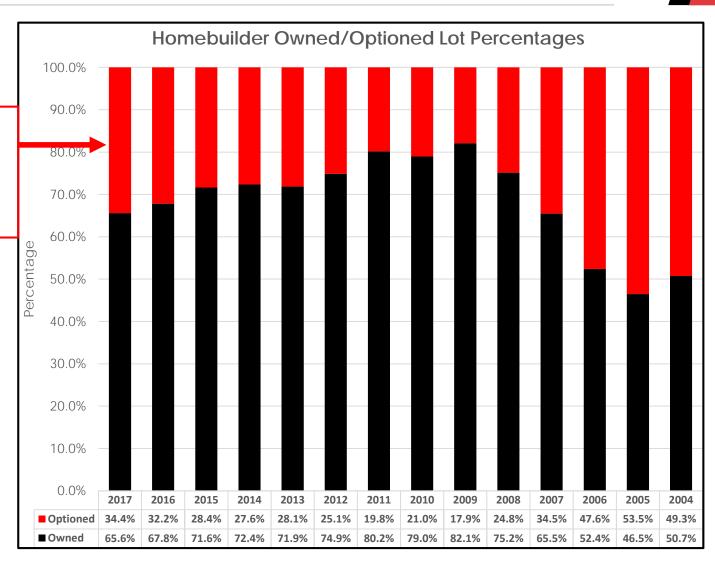




#### BUILDERS ARE OPTIONING MORE LOTS



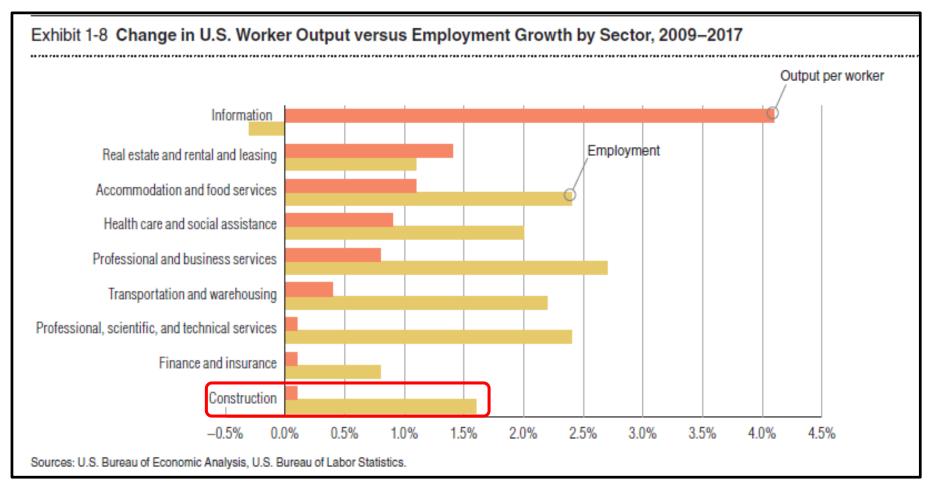
The percentage of lots controlled through options is increasing in recent years.





## OUTPUT PER WORKER IS VERY LOW FOR THE INDUSTRY







#### HOUSING COST INPUTS ARE RISING



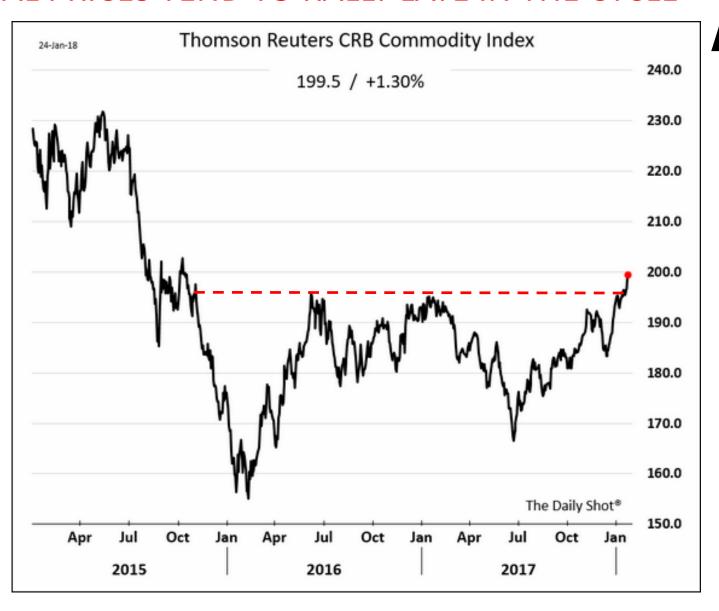
- A 3,000 s.f. house requires
   20,000 board feet of framing
   lumber and another 15,000 of other wood products.
- A \$100 increase in lumber prices would roughly translate into a \$12 per square foot increase in construction costs.
- Lumber prices get locked in months in advance so many of the recent increases are just beginning to hit the builders budgets.





#### MATERIAL PRICES TEND TO RALLY LATE IN THE CYCLE







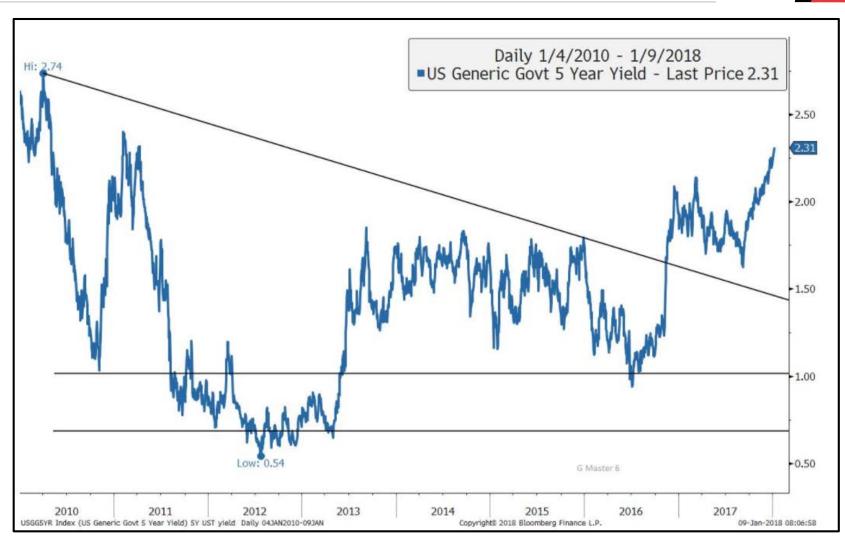


Interest Rate Markets



#### U.S. 5 YEAR TREASURY

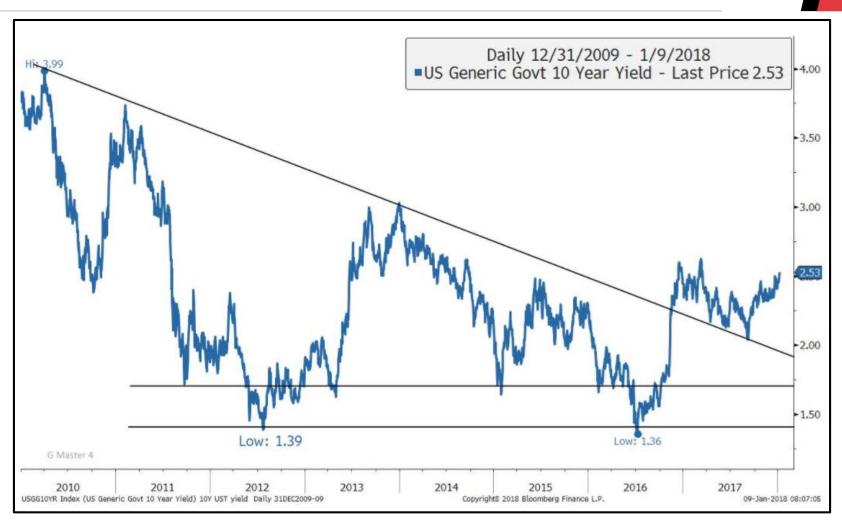






### C

#### U.S. 10 YEAR TREASURY

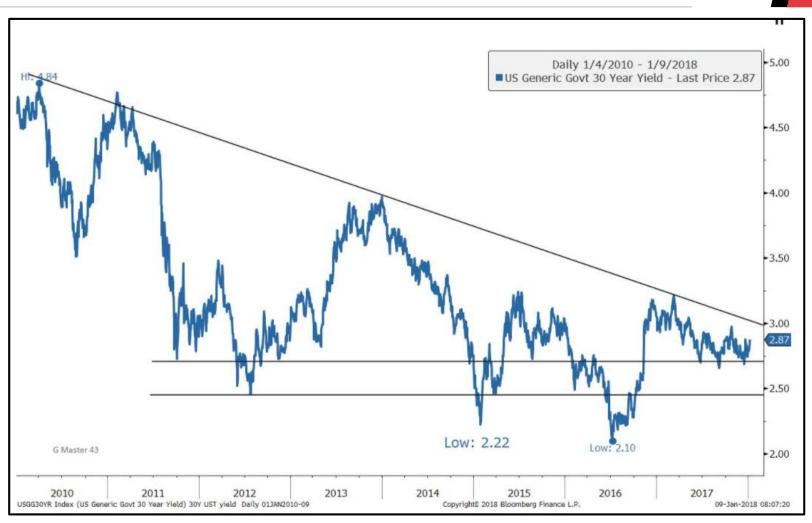


Current yield on the 10 Year is above 2.70%



#### U.S. 30 YEAR TREASURY





Only the long dated Treasuries have yet to break the downtrend line.

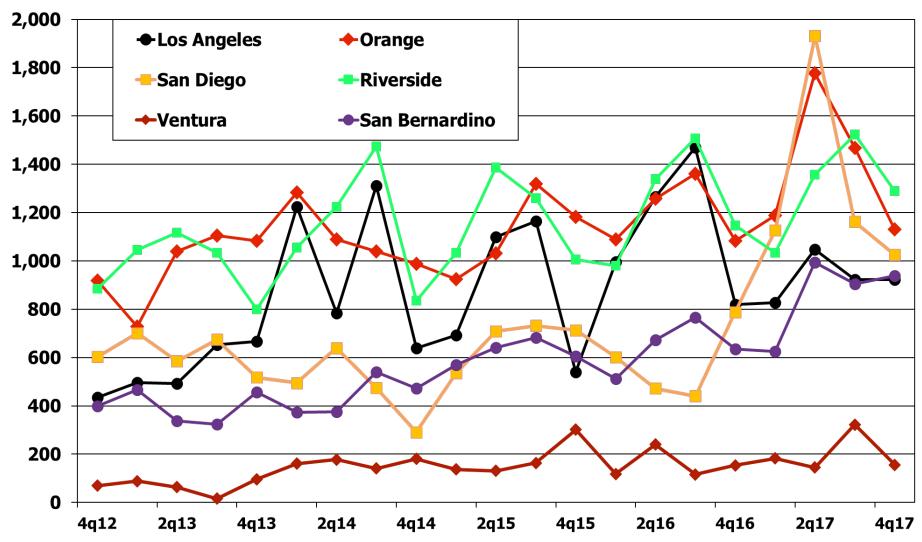




## Southern California Housing Market Trends

# Southern California – Quarterly Starts

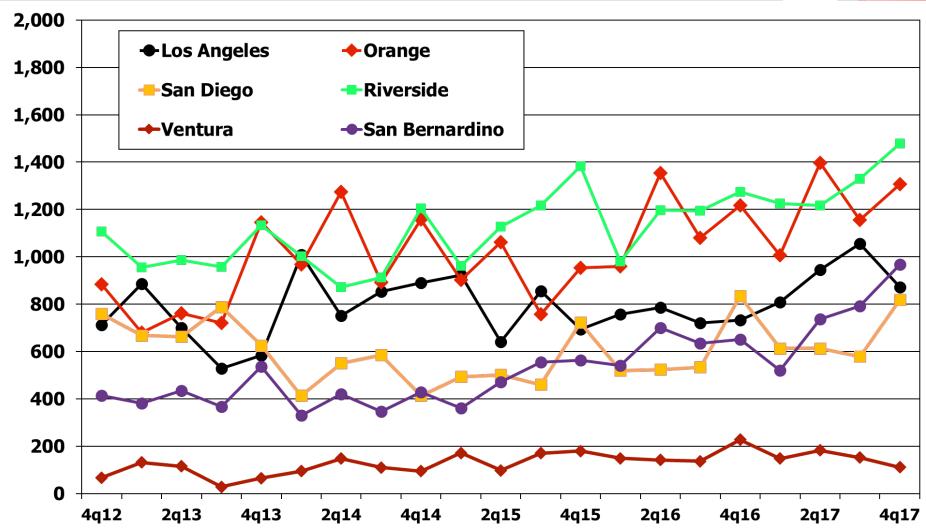






# Southern California – Quarterly Closings

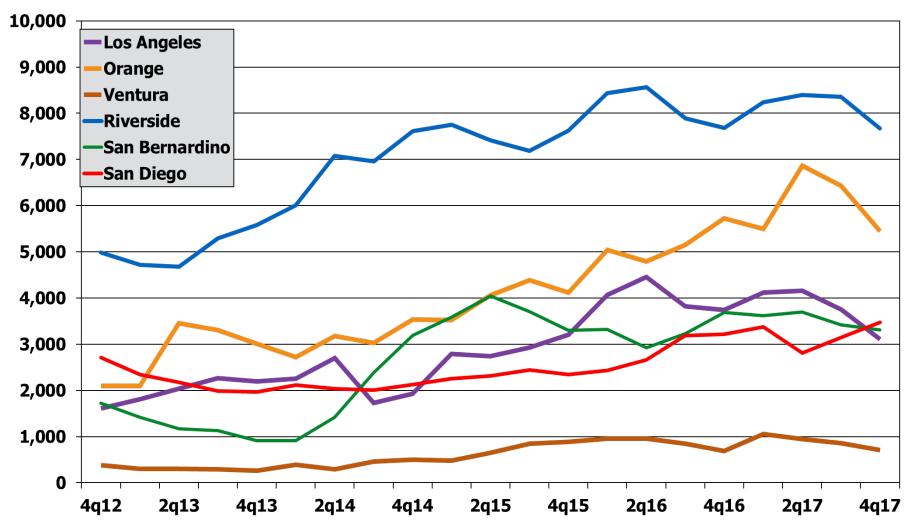






# Southern California - Developed Lots

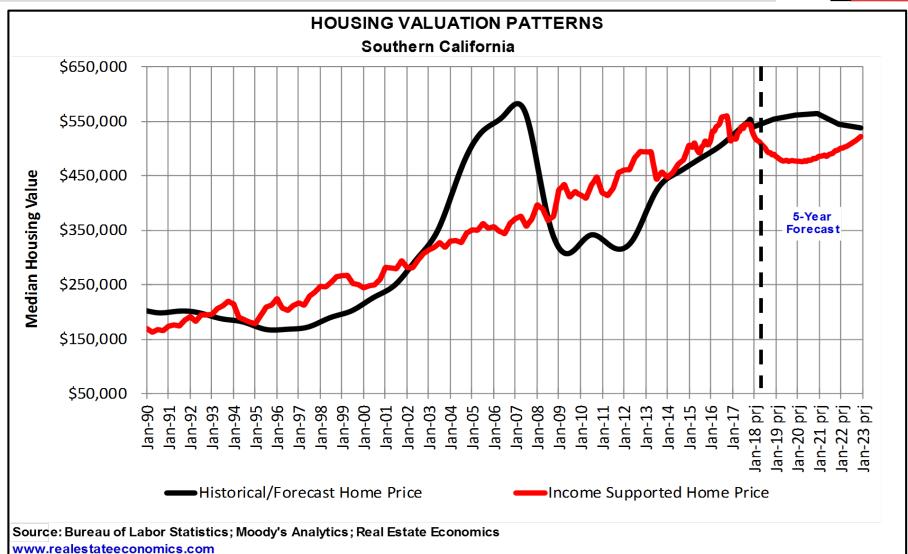






### Southern California Valuation Patterns





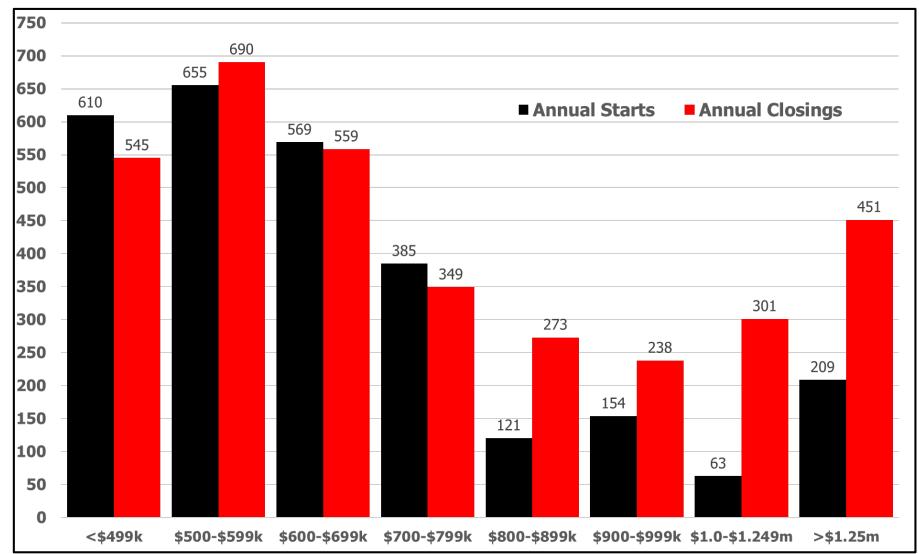




Pricing Trends By County 4Q 2017

# Los Angeles County – Starts and Closings by Price Range 4Q 2017

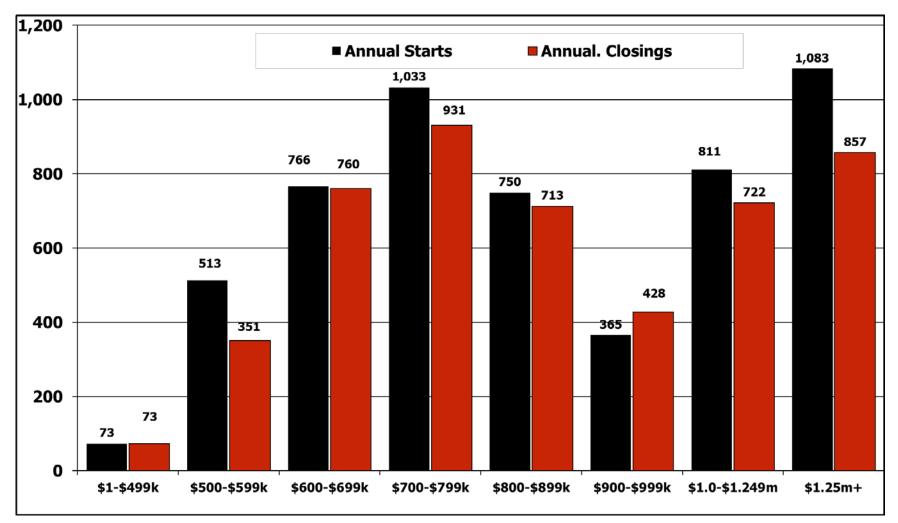






# Orange County – Starts and Closings by Price Range 4Q2017

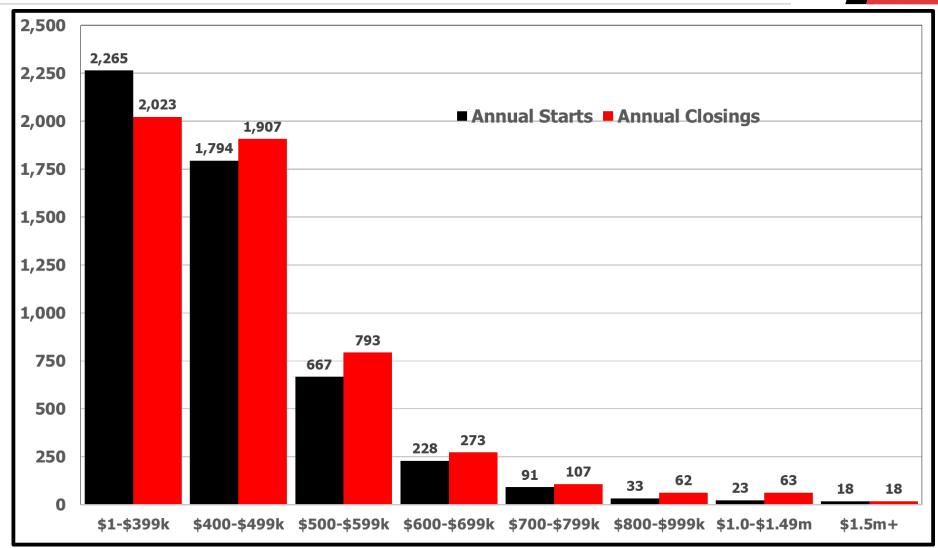






# Riverside County – Starts and Closings By Price Range 40 2017

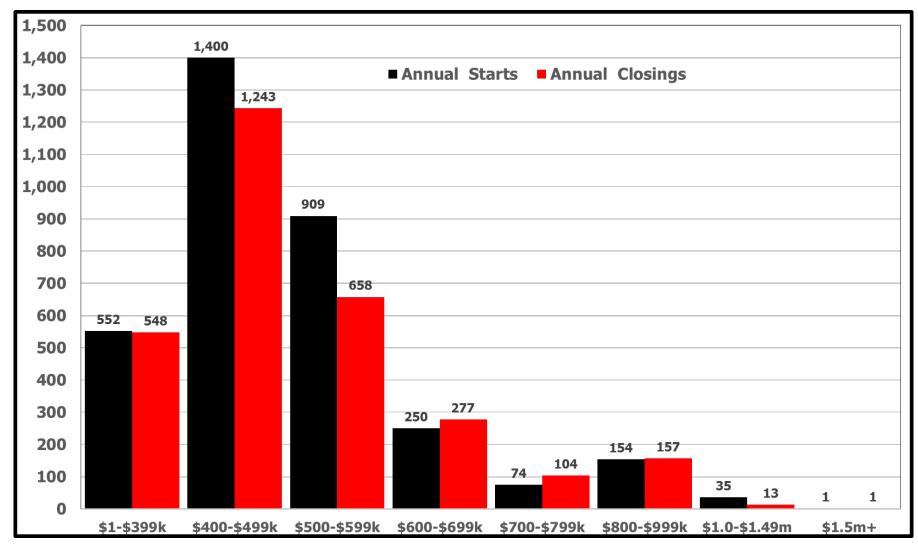






### San Bernardino County – Starts and Closings By Price Range 4Q 2017

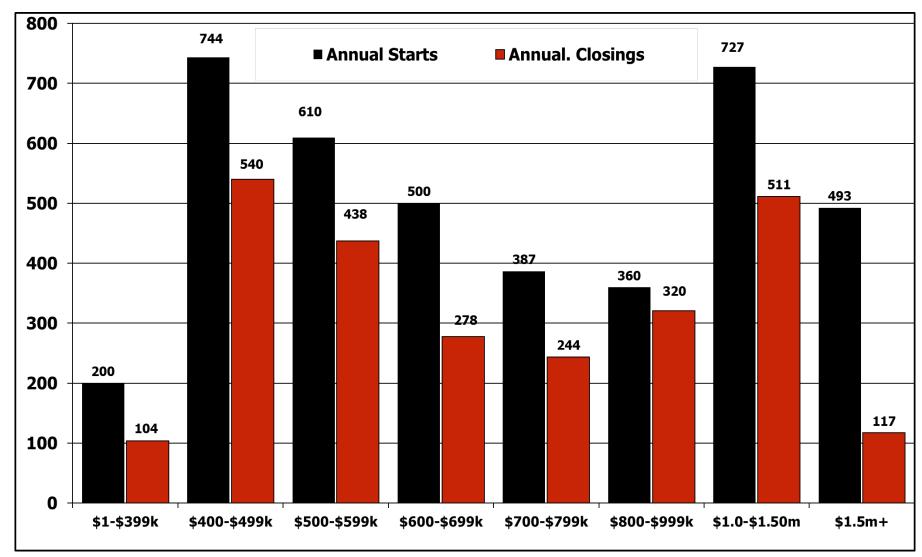






# San Diego County – Starts and Closings By Price Range 4Q 2017

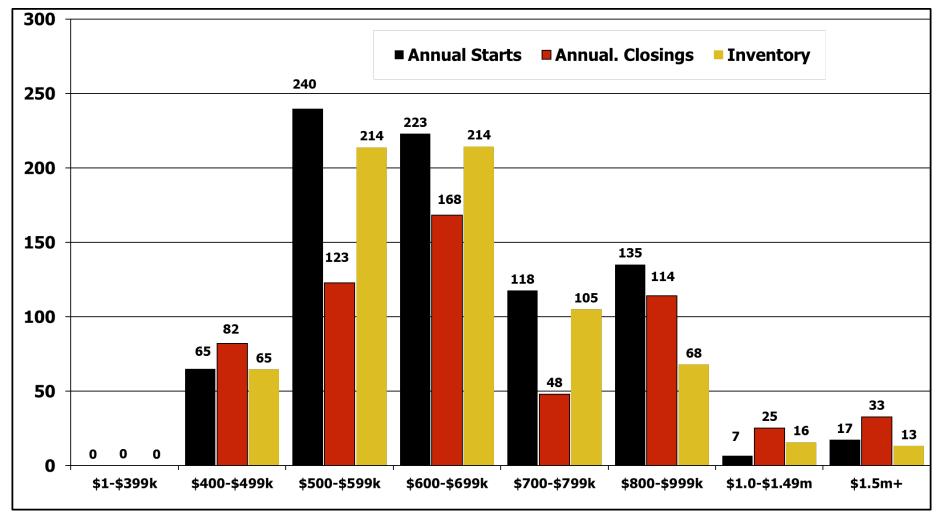






## Ventura County – Starts, Closings AND Inventory By Price Range

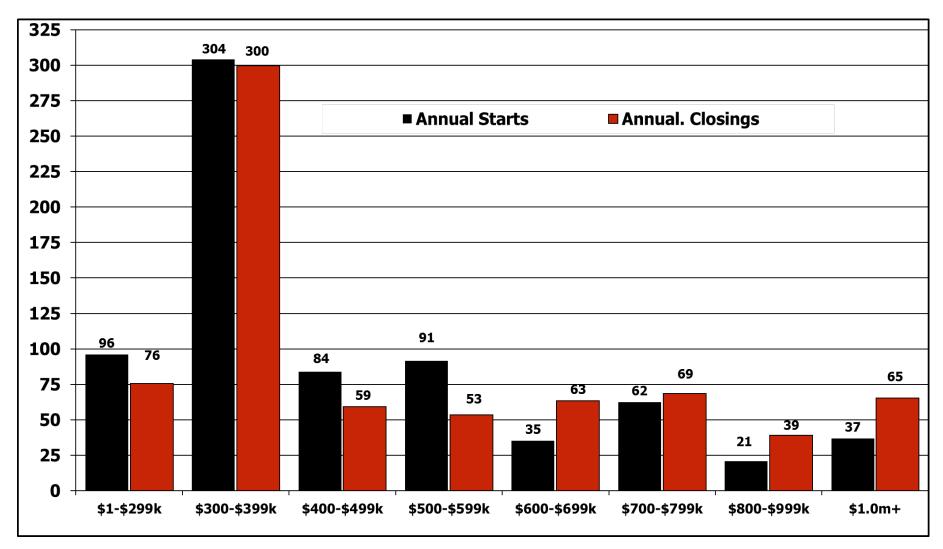






### Coachella Valley – Starts and Closings BY Price Range4Q 2017 Includes Age Qualified







### Southern California - Outlook



#### The Economy

There are no signs that a recession is imminent or likely to occur in the next 12 to 18 months,

### The Cycle

There is little doubt that we're late in the cycle, its time to look ahead and anticipate change,

#### Supply Constraints

 The market shows a labor shortage, higher land prices, a complicated entitlement environment and increasing product concentrations. The available supply is not well distributed by price.

#### Input Costs

Late cycle stages typically show rapidly rising labor and materials costs, we're seeing that now.

#### Bottom Line

 The homebuilding process takes years to entitle land and then build homes, awareness of cycles and trends is essential to risk management.

### **Contact Information**

John Mulville
Regional Director, Southern California
Office (949) 579-1250
Cell (949) 837-5504
jmulville@metrostudy.com

