

Anticipating Real Estate Capital Markets Downturns

LaSalle's 2015 Investment Strategy Annual (ISA) focuses closely on cycles; we delineate the different cycles that impact real estate (RE) returns, estimate where we are in those cycles, and propose strategic and tactical actions to take in response. The three most important cycles that we analyze relate to the economy, real estate markets, and capital markets.

We provide a simple framework for collating the best leading indicators of the Capital Market cycle.

This paper expands the note on tracking and more importantly anticipating capital markets in Chapter 4 of the 2015 ISA. We discuss the importance of capital markets for real estate investing, identify tools and techniques for tracking capital markets across the globe, and provide a simple framework for collating the best leading indications of the next turning point in the current cycle in the three regions where we are most active: North America, Europe, and Asia-Pacific.

Real estate capital markets are notorious for “animal spirits” driving booms that run for years followed by sudden busts. A recent report from the World Economic Forum (WEF) on this topic highlights how challenging it can be for governments, regulators, central banks, and private market participants to predict and manage the real estate downturns¹. The WEF report highlights areas to look for signals but does not fully provide the guidelines and tools to help anticipate a real estate downturn, which is the focus of this paper.

Capital markets data is also generally very noisy. A 3% decline in stock prices or a 20 bps increase in interest rates could be the first sign of an inflection point, or it could simply be reversed the next day. Separating signals from noise is challenging both for high frequency public market data as well as less frequent private real estate market information.

After reviewing prior studies and testing potential indicators for their ability to track markets and anticipate changes in market conditions, we identify three key areas that are likely to provide advance signals:

1. Real estate supply / demand: What are likely future economic conditions and how do they affect demand for real estate? What are real estate occupancy rates and the level of supply response?
2. Debt / Equity flows and terms: Is bank lending conservative or aggressive? Are banks still in good health? Is securitization (CMBS, RMBS, etc.) contributing to the debt /equity imbalance? Are loans being repaid in a timely manner?

¹ Emerging Horizons in Real Estate. An Industry Initiative on Asset Price Dynamics, Profiles, Prescriptions and Proposals, World Economic Forum, January 2015.

3. Real estate’s pricing relative to the capital markets: Is real estate fairly priced relative to Government and corporate bonds? Are REITs overpriced relative to stocks? What is REIT pricing telling us about public market views of real estate?

By monitoring these indicators, we can generate advance warnings signals that help predict market turning points. It is important to look at these indicators in totality. A single imbalance may not warrant strategic reaction, but multiple imbalances could indicate a high probability of a market correction or downturn.

LaSalle analyzed a range of indicators from public and private real estate markets, debt and equity markets, other asset classes, and the economy. A summary of what we believe are the most powerful metrics is presented in Table 1, and a more complete description of these indicators and how to use them is included further below.

Table 1: LaSalle’s Dashboard for Tracking Real Estate Downturn Signals by Region

| | North America (US focus) | Europe (UK focus) | Asia-Pacific |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Real estate supply / demand | <ul style="list-style-type: none"> • Leading economic indicators • US Yield Curve | <ul style="list-style-type: none"> • Leading economic indicators • Speculative construction • Corporate bond spreads | <ul style="list-style-type: none"> • Leading Economic Indicators • Yield Curve in mature economies |
| Debt / Equity Flows and Levels | <ul style="list-style-type: none"> • CMBS Issuance • Transaction volume change | <ul style="list-style-type: none"> • Maximum LTVs • Bank default risk • RE debt as a % of bank’s balance sheets | <ul style="list-style-type: none"> • Bank lending to real estate • Transaction Volume Change |
| Real estate relative pricing | <ul style="list-style-type: none"> • RE yield spread to corporate Bonds • Trailing 6 month REIT prices | <ul style="list-style-type: none"> • RE yield vs bonds • REITs vs stocks • Abnormal growth in capital values | <ul style="list-style-type: none"> • RE yield spread vs bonds & stocks • REITs prices |

As shown in the Table above, we have focused on the most meaningful metrics from different categories. Within each metric, we also developed different levels of potential imbalance: a caution sign and a danger sign. The direction of change is also important;

an indicator in the caution range might be worrying, but could also be a sign of comfort if it was recently in the danger zone. Importantly, we recognize that careful tracking of potential warning signs will rarely provide an unambiguous advanced signal of a turning point. Clear, objective consideration and analysis of the data and market context is still needed before actionable conclusions should be drawn.

North America Capital Market Indicators

We have identified indicators for the US and Canada, both of which have broad and deep historical data. The following discussion focuses on the indicators for the US, as it is the largest and most important market for global real estate investors.

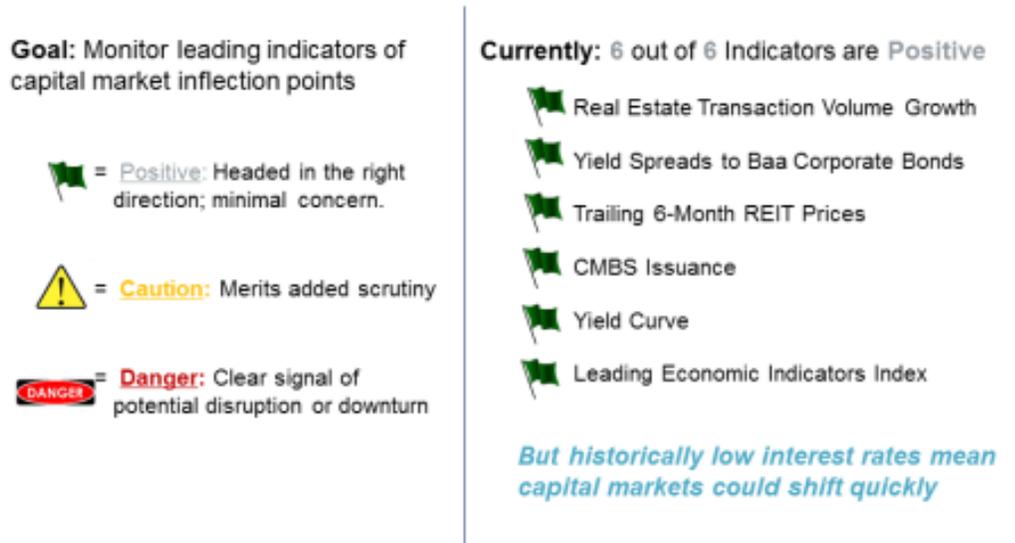
- Real estate supply / demand imbalance
 - **Leading Economic indicators** – This is a basket of economic indicators designed to predict future economic conditions, including downturns. A two month decline in this index indicates a cautionary note for real estate fundamentals and capital markets, while four months of decline is a danger sign.
 - **Yield Curve** – The yield curve has been a reliable indicator of economic risk, which often drives negative capital market conditions. A negative spread between the 10 year note and the 3 month bill is a good indicator of future GDP declines.
- Debt / Equity imbalance
 - **CMBS Issuance** – Commercial Mortgage Backed Securities are one of the major avenues for debt financing for real estate. Issuance of CMBS bonds responds quickly to investor sentiment. We track the change in trailing 3 month issuance, with two consecutive months of declines indicating caution.
 - **Real Estate Transaction Volume Growth** – The year on year change in the trailing three month transaction volume is a good indicator of investor sentiment. One month of decline indicates caution while two consecutive months of decline or a 10% decline indicates a danger signal.
- Real estate relative pricing imbalance
 - **Pricing Relative to Corporate Bonds** –Baa Corporate bonds have a similar risk profile to core real estate income risk. The spread between the trailing NCREIF income yield and the Baa yield is a good indicator of relative pricing. A negative spread (real estate yields lower than bond yields) has reliably preceded real estate downturns, but sometimes precedes the downturn by several years.

- **REIT Pricing** – A 10% decline in the trailing 6 month trailing average indicates a significant shift in investor expectations regarding commercial real estate and a likely downturn in private real estate values.

US Capital Market Indicators

Figure 1: Key Capital Markets Indicators Dashboard

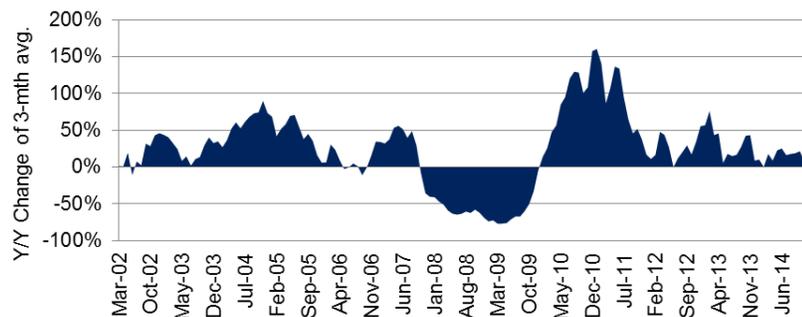
Current signals suggest capital markets are mid-cycle in the US.



As of 22 January 2015

Figure 2a and 2b: Capital Markets Indicators
Transaction Volumes Healthy, NPI Income Spread to Baa Above Historic Avg.

Figure 2a: Real Estate Transaction Volume Change



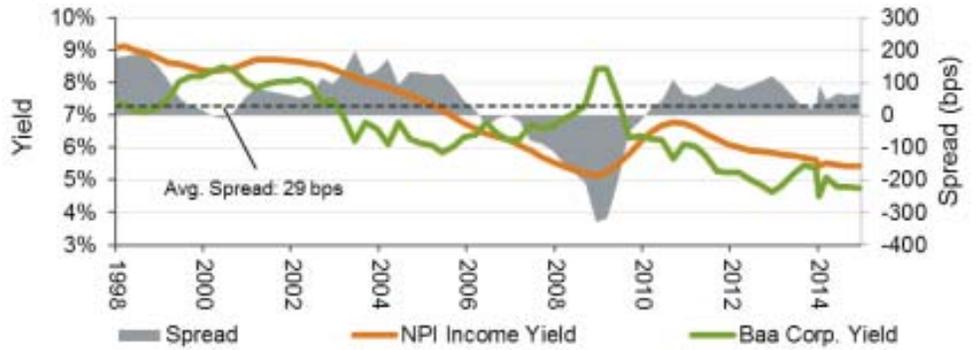
As of 23 January 2015

Source: Real Capital Analytics, NCREIF, Bloomberg

The year-over-year growth in real estate transaction volumes, shown above on a trailing 3-month basis, has slowed from the dramatic rebound in 2010-2011. It remains modestly positive, consistent with capital markets that are mid-cycle.

Current Signal: Positive. Monthly volumes are in-line with 2005 volumes, and still below highs reached in 2007.

Figure 2b: NCREIF Income Yield Spread to Corp. Baa



As of 23 January 2015
 Source: Real Capital Analytics, NCREIF, Bloomberg

The spread of 3Q trailing-year NPI income yields to Baa corporate bond yields was 67 bps as of December 31, 2014. This is above 15-year average spread of 29 bps, leaving room for compression of the spread in the event that interest rates move up.

Current Signal: Positive. However, interest rates are historically low and a rapid upward movement in rates could impact real estate values.

Figure 3a and 3b: Capital Markets Indicators
REIT Prices and CMBS Issuance on Upward Trend

Figure 3a: US Equity REIT Prices

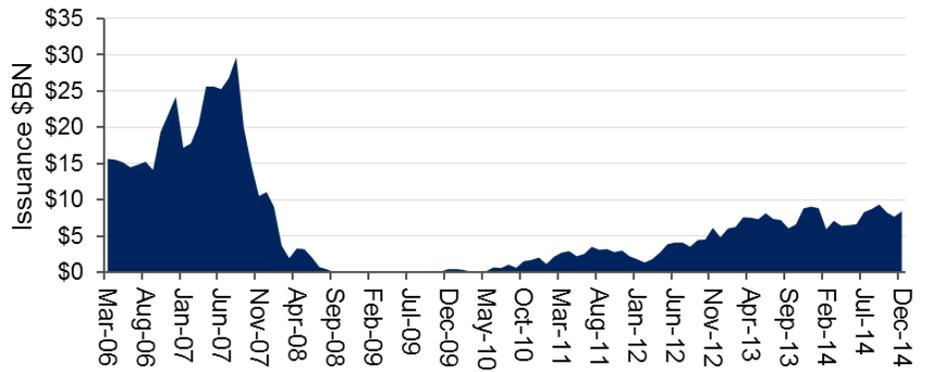


As of 23 January 2015
 Source: Bloomberg, CMA Alert

US REIT prices have historically been a leading indicator of private markets. This is a volatile indicator, influenced by interest rate movements, and the modest dips in the 6-month moving average in late 2011 and 2013 did not translate into a property market downturn. A decline greater than 10% would signal a shift in the market.

Current Signal: Positive. Prices have already recovered after a 6.5% decline in September.

Figure 3b: CMBS Issuance, 3-Month Trailing Avg.



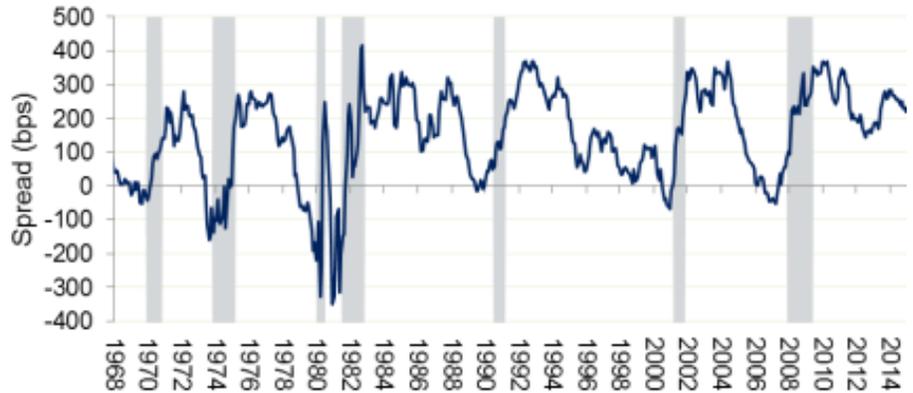
As of 23 January 2015
Source: Bloomberg, CMA Alert

Debt remains available from a variety of sources, including CMBS. Issuance slowed in October and November, but jumped in December. Some buyers report that the quality of collateral has declined in recent issuance.

Current Signal: Positive. The market is active but it remains a fraction of pre-recession levels.

**Figure 4a and 4b: Leading Economic Indicators
Yield Curve and Other Leading Indicators are Positive**

Figure 4a: Yield Spreads of 10Y to 3-Month Treasuries

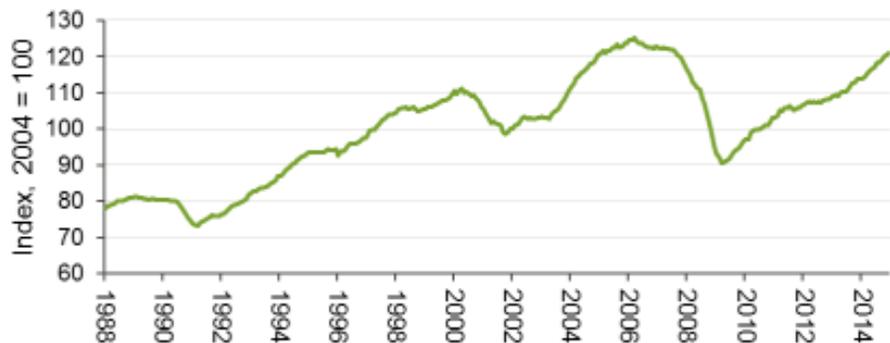


As of 23 January 2015
Source: Bloomberg, The Conference Board

All six recessions since 1968 have been preceded by at least 3 consecutive months of negative spreads (average yields for the month) in the 12 months before the start of the recessions. During this same period, this measure has produced no false positives.

Current Signal: Positive. Spreads have been consistently positive since mid-2006.

Figure 4b: Leading Economic Indicators Index



As of 23 January 2015
Source: Bloomberg, The Conference Board

The Leading Economic Indicators Index (LEI) is a composite economic index of 10 leading economic indicators. It is constructed to summarize and reveal turning points in the business cycle while removing the volatility of individual indicators.

Current Signal: Positive. It has been positive or stable 20 of the past 21 months.

European Capital Market Indicators

Europe is a large region with diverse real estate markets. The UK capital market cycle has reliably been 6 to 12 months ahead of other European markets. Rather than focus simultaneously on all European countries, we advocate tracking the UK economy and market, given the depth and long dated time series as well as the maturity and liquidity of its markets. However, it is perfectly feasible to extend the signals discussed below to other European markets.

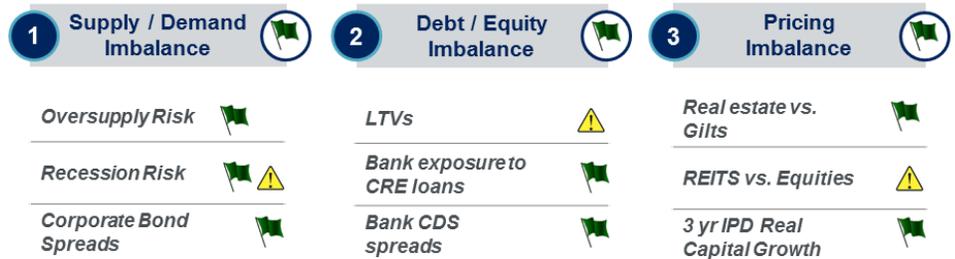
- Real estate supply / demand imbalance
 - **Leading Economic indicators** – The Composite PMI index has historically been a good predictor of UK GDP recession risk. During the last recession this indicator provided a clear signal in late 2007.
 - **BBB Corporate health check** - We use corporate bond spreads: this is the spread of BBB corporate bond yields to that of AAA rated companies. This metric captures the ability of the average UK corporate to access affordable credit and make real estate occupancy decisions. During the previous crisis this delivered a clear risk signal as early as September 2007.
 - **Oversupply risk** - This is a pure real estate signal. Here we track and monitor the extent of speculative completions in London as a warning sign of an overheating market. Over the past three cycles, a market downturn followed immediately after a period where speculative developments have exceeded the long run average for 18-24 months.
- Debt / Equity Imbalance
 - **Over stretched Loan to Value (LTV) Ratios** - Maximum loan to value ratios for core property are used to measure whether lending conditions have become too lax. LTV levels tend to increase with overall market confidence and lender competition. Pre-GFC it was not uncommon for these levels to reach 80-90% in many European markets. LTV levels above 80% are considered warning signs.
 - **Banking system's exposure to CRE loans** - The overall exposure of the UK banking system to commercial property loans is a good indicator of an overheating market if banks' exposure surpass the 9-10% mark (it reached 9% in 1991 and 10% in 2005). The current reading of this ratio is 8.8%.
 - **Bank default risk**- Traded Credit Default Swaps (CDS) have proven to be good indicators of bank stress and predictors of distress and credit tightening. A significant and persistent spike such as the one witnessed in July 2007 is a useful early indicator.

- Real estate relative pricing imbalance
 - **Real estate yields spread to government bonds** – This metric is the difference between average UK property yields and the 10-year Gilt yield. A spread falling durably below its long term average of 190bps calls for caution.
 - **REITs versus equities** (REITs Dividend vs Stocks’ yield spread). A negative spread between UK REIT and UK equities dividend yields (normally positive) is a signal that REITs may be overheating. During the last downturn this signal set off alarm bells throughout the year 2007 as the spread thinned towards zero and even turned negative in March 2008.
 - **Three-year IPD Real Capital Growth**: This is signal is somewhat chartist in its approach but over the past three cycles in the UK (i.e. since 1971) two or three successive years of 6%+ real capital appreciation at an all-property level in the UK has systematically led to a market correction. For the time being we have one such year: 2014 with an 11% real capital growth.

Illustrations for Europe

Figure 5: LaSalle Risk Dashboard*: Capital Markets in Check

Goal: Monitor leading indicators of capital market inflection points (UK focused here)



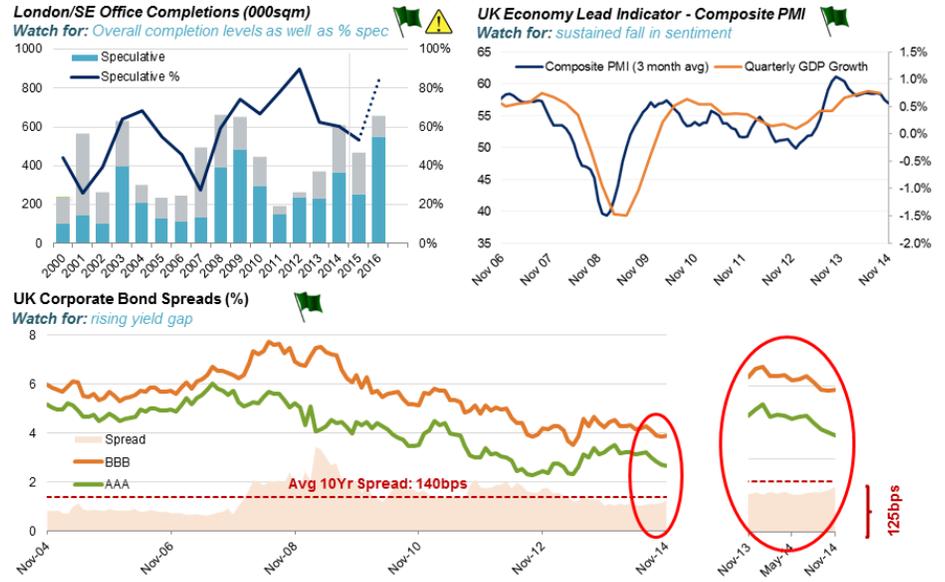
Key: **Positive:** Headed in the right direction; minimal concern. **Caution:** Merits added scrutiny. **Danger:** Clear signal of potential disruption or downturn

* We use a variety of indicators with many in the UK as the regional leading indicator. We monitor three market imbalances. Any two in “Danger” zone implies imminent (6-12 months) downturn

Source: LaSalle (12/14)

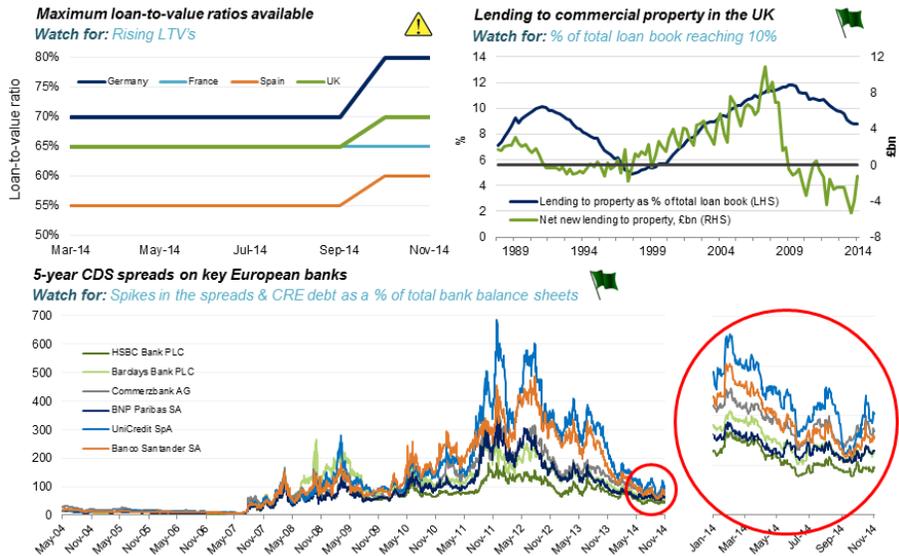
But 4 out of 9 indicators have turned to “Caution” for the UK.

Figure 6: Supply / Demand Imbalance
Concerns over economic outlook not reflected in construction levels



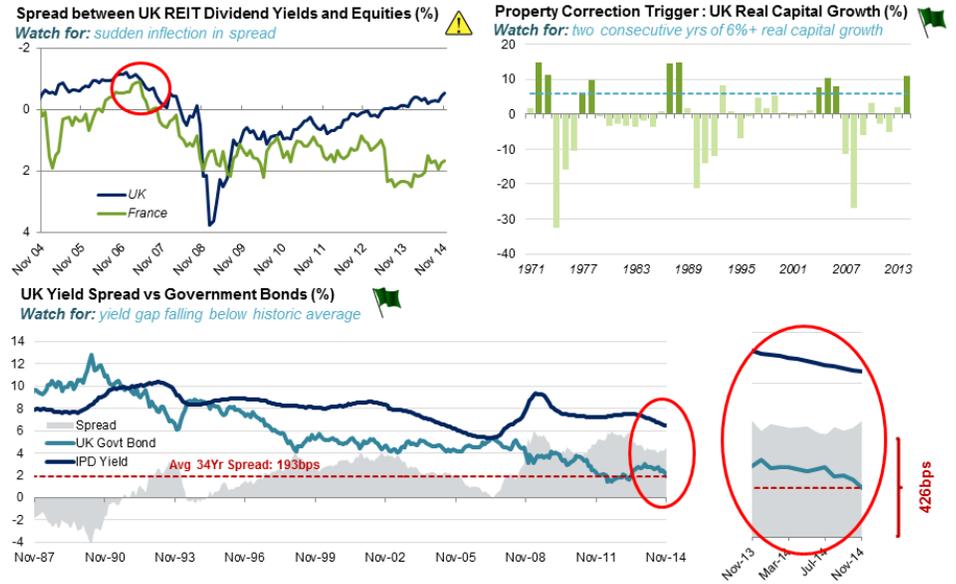
Source: JLL / LaSalle (10/14) / OECD / DataStream

Figure 7: Debt / Equity Imbalance
Stability returning to lending conditions but LTVs rising



Source: Bank of England, Capital Economics / DeMontfort UK Commercial Property Lending Market Year-End 2013 (2014)/ Bloomberg / LaSalle

Figure 8: Pricing Imbalance
Scope for further yield compression



Source: Bloomberg / IPD / ONS / DataStream
Selection of Two Key Indicators for Europe

Figure 9: London/SE Office Completions (000sqm)
 Watch for: Overall completion levels as well as % spec

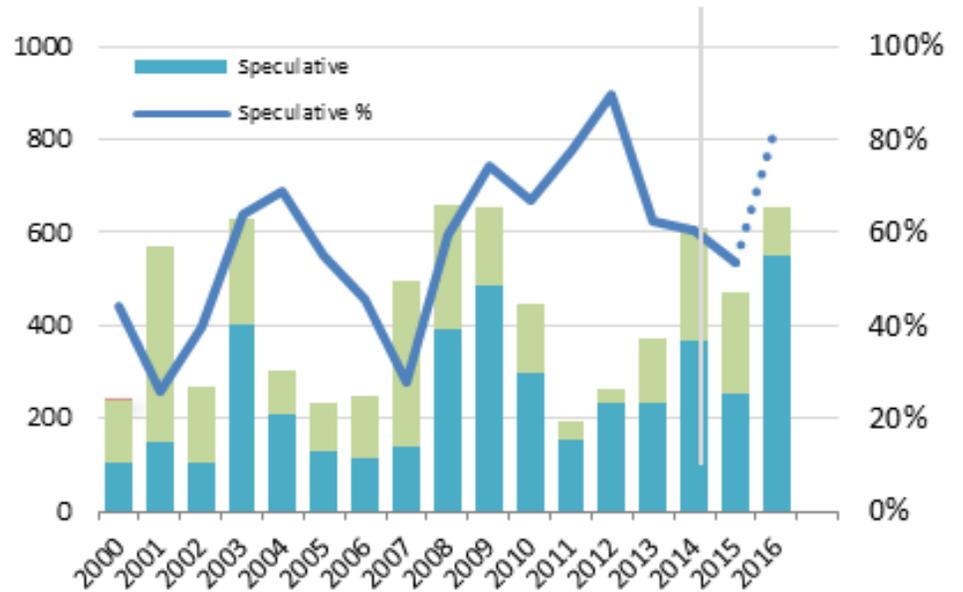
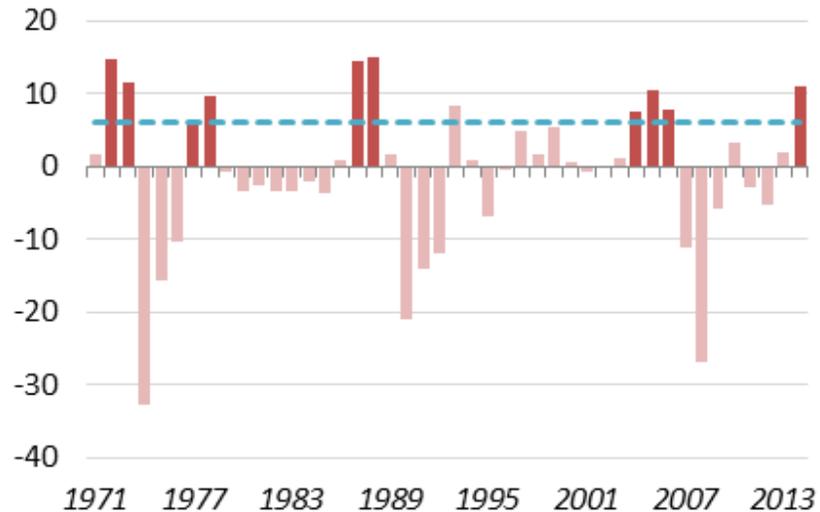


Figure 10: Property Correction Trigger: UK Real Capital Growth (%)
Watch for: two consecutive yrs of 6%+ real capital growth



Source: IPD

Asia Pacific Capital Market Indicators

The economies and financial markets of the Asia Pacific region, while closely linked, are also heterogeneous and at different stages of evolution. While similar drivers such as debt, credit spreads, and REIT pricing are reputed as valuable leading indicators, there is no single set of financial markets data that are fit for all purposes. Furthermore, while data transparency and availability is rapidly improving, time series for many indicators are still relatively short, covering at best two real estate cycles. The exception is Australia, where long time series permit meaningful cyclical analysis. Nevertheless, we have sought to track a suite of indicators for Australia, China, and Japan that are indicative of turning points in financial markets and are roughly comparable to what is tracked elsewhere. The sources and perhaps the indicators themselves will change as data availability improves and local capital markets deepen and broaden.

- Real estate supply / demand imbalance
 - **Leading Economic indicators** – The Composite Leading Indicators Index (CLI) is designed to provide early signals of turning points in business cycles by comparing current economic momentum to long-term trends. These indices, calculated by the OECD, are some of the longest available time series of monthly economic data for Asia, and allow comparison to previous downturns in 2009, 2001, 1998, and 1990. The warning threshold is when the index is below long-term trend and falling.

- o **Yield Curve** – In mature economies, short-term rates that are higher than long-term rates are a good indicator of imminent economic recession. This indicator is less reliable for emerging or state-directed economies such as China.
- Debt / Equity imbalance
 - o **Bank Lending to Real Estate** – Historically, growth in lending has nearly always been a medium- to long-term precursor to property sector overheating and correction. Heightened debt flows can last for several years prior to any turning point. We monitor for consecutive quarters with rates of growth comparable to the 2006-06 boom, that is in excess of 15% y/y in China or Australia or 5% in Japan.
 - o **Real Estate Transaction Volume Growth** – There is limited data available on a national basis prior to the GFC outside of Australia and China’s evolving and non-transparent land transaction driven market is difficult to assess historically. Large declines in monthly transaction volumes could be potential warning signs of emerging stress in a market.
- Real estate relative pricing imbalance
 - o **REIT Pricing** – The REIT markets in Australia and Japan are deep and liquid, though their volatility is linked to broader equity markets. Furthermore, the externally managed sponsor structure in Japan can be distortive to value relative to fundamentals. China has not yet passed REIT legislation, but Hong Kong and Singapore have listed REITs with exclusively Chinese exposure. These can be tracked as a proxy. For ease of comparison we have adopted a similar measure to the US: a trailing 6 month price change and a 10% decline threshold.
 - o **Real Estate Pricing Relative to Corporate Bonds** –For each market we have sought to use a cap rate based on in-place NOI, though sources differ. For Australia and Japan, we use the IPD All Property Index while China yields are based on the Shanghai Overall CBD Office Index. This is then compared to a low investment grade bond yield index, sourced from Bank of America Merrill Lynch. The depth of country’s corporate bond markets differ – China’s is just emerging. The comparison threshold is the long term average, but this also varies due to data availability: Australia from 1996, Japan from 2002, and China from 2004+.

Volatile markets point to correction in China, while Japan is stable but at risk.

Figure 11: Asia Key Capital Market Indicators Dashboard

Goal: Monitor leading indicators of capital market inflection points

-  = **Positive:** Headed in the right direction; minimal concern.
-  = **Caution:** Merits added scrutiny
-  = **Danger:** Clear signal of potential disruption or downturn

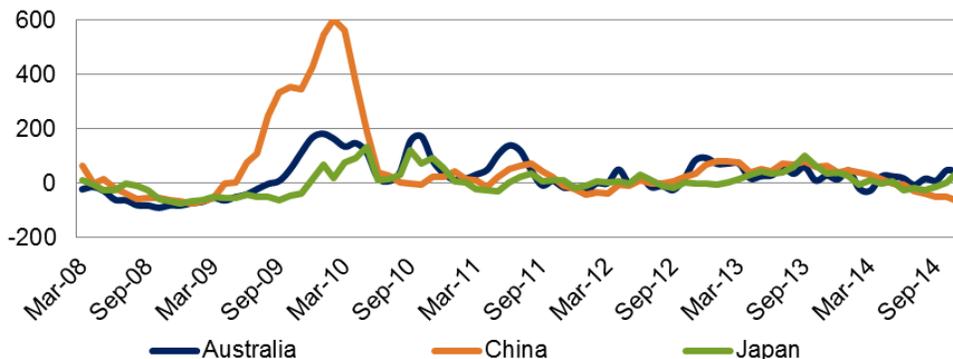
| AUS | CHN | JPN | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
|  |  |  | Real Estate Transaction Volume Growth |
|  |  |  | Cap Rate Spreads to Corporate Bonds |
|  |  |  | Trailing 6-Month REIT Prices |
|  |  |  | Bank Lending to Real Estate |
|  |  |  | Yield Curve |
|  |  |  | Leading Economic Indicators |

Currently: CHN requires **Caution**, while AUS is **Positive**. JPN is currently **Positive**, but many indicators are borderline and could shift

As of December 2014

Figure 12a and 12b: Capital Markets Indicators
AUS and JPN trending positive; CHN requires monitoring

Figure 12a: Real Estate Transaction Volume Change (3mma % y/y)



Sources: Real Capital Analytics, Bank of America Merrill Lynch, IPD, ARES, LaSalle Investment Management (LaSalle)
As of December 2014

The year-over-year growth in real estate transaction volumes, shown at left on a trailing 3-month basis varies by country. CHN is in reverse, while JPN and AUS are accelerating. Volume growth is below the boom of 2009.

Current Signal: Mixed. Monthly volumes in China are falling rapidly, while the reverse is true in Japan

Figure 12b: All Property Cap Rate Spread* to Corp. Bonds (bps)



*In each case we have sought to use a cap rate based on in-place NOI, though sources differ. Australia and Japan are All Property while China is specifically Shanghai Overall CBD Office. Also, time series differ, Japan (2002+), Australia (1996+), and China (2004+)

Sources: Real Capital Analytics, Bank of America Merrill Lynch, IPD, ARES, LaSalle Investment Management (LaSalle)
As of December 2014

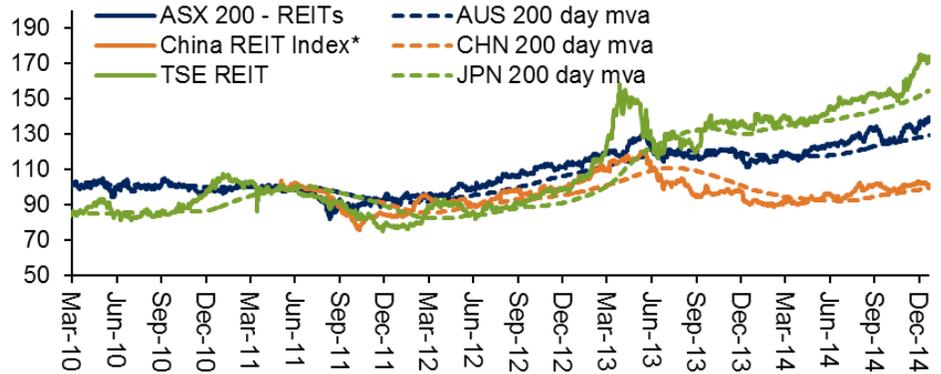
In Q3, the spread of cap rates to corporate bond yields in AUS was 298bps and in JPN 457bps, the former well above its long term average and the latter in line. In CHN, the spread for Shanghai office income yields was -159bps, well below its long-term average. A short time series and single city/sector diminishes the impact of this variable.

Current Signal: Positive, though CHN needs monitoring. Also, interests rates are historically low and a rapid move up could impact real estate values.

Figure 13a and 13b: Capital Markets Indicators

REIT prices are positive, but lending is picking up especially in CHN

Figure 13a: REIT Price Indices (30/04/11 = 100)



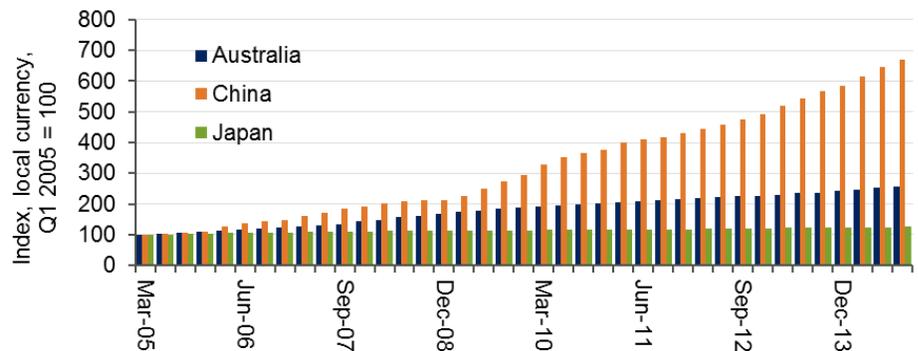
Notes: created by LaSalle using price indices for Hong Kong and Singapore-listed REITs with 100% exposure to China

Sources: Bloomberg, CEIC, Bank of Japan, Reserve Bank of Australia, Australian Prudential Regulation Authority, LaSalle
As of December 2014

REIT prices have historically been a leading indicator of private markets, though their history in Asia outside of Australia is limited. Signals are not unequivocal; e.g. the 2013 decline in prices in CHN did signal a market downturn, but JPN's contemporaneous decline in REIT prices did not.

Current Signal: Positive. Prices are trending up in AUS and JPN, and are stable for CHN.

Figure 13b: Bank lending to real estate



Sources: Bloomberg, CEIC, Bank of Japan, Reserve Bank of Australia, Australian Prudential Regulation Authority, LaSalle
As of December 2014

Lending to real estate remains readily available through a variety of channels, with banks increasingly competitive across the region.

Current Signal: Mixed. In AUS and JPN, lending growth is up but is still less than half the rate of the 2007/08 boom. In CHN, the quantum of debt is a major worry. And, although the rate of gain slowed in 2012, it has re-accelerated in 2014.

Figure 14a and 14b: Leading Economic Indicators
Mixed – yield spreads are positive but other indicators are soft

Figure 14a: Yield Spreads of 10Y to 3-Month Government Securities

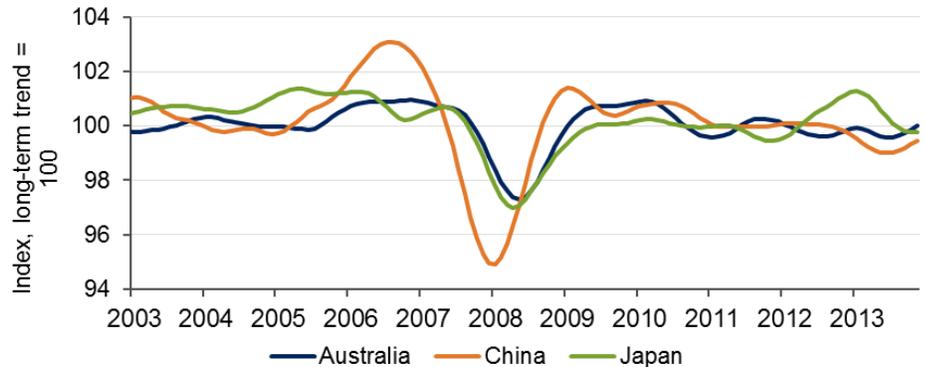


Sources: Bloomberg, OECD
As of December

In mature economies a period where short-term rates are higher than long-term rates is a good indicator of imminent economic recession. This indicator is less reliable for emerging or state-directed economies such as China.

Current Signal: Positive. Spreads for AUS and JPN have been consistently positive since 2012. However, JPN's yield curve is distorted by BoJ Quantitative Easing and could be misleading.

Figure 14b: Leading Economic Indicators Index



Sources: Bloomberg, OECD
As of December

The Composite Leading Indicators Index (CLI) is designed to provide early signals of turning points in business cycles by comparing current economic momentum to long-term trends.

Current Signal: Caution. All major economies are below long-term trend; however, while AUS and CHN are recovering momentum, JPN is still trending downward.

Overall there are a few conclusions to be drawn from tracking and trying to predict capital markets swings:

- Identifying reliable signals for capital markets and calibrating the appropriate thresholds for what is considered 'risky' versus 'normal' is not an exact science. Historical analysis shows that the trigger for the repricing of risk differs nearly every cycle, meaning that an unequivocal 'sell' signal is unlikely for an illiquid asset class such as real estate.
- We also acknowledge that even if these tools can predict the cycle inflection point correctly and sufficiently well in advance, it can be difficult to execute a major portfolio adjustment given the relatively illiquidity of real estate. Indeed, building a high quality real estate portfolio often takes many years and a wholesale exiting of that portfolio can be counter-productive.
- However, for real estate investors these signals can help position portfolios defensively early enough in the cycle, by selling weak assets early in an overheating market, avoiding high leveraged positions, and focusing on high quality assets which traditionally perform well in market downturns.

As we start 2015, we are carefully watching for signs of changes in the real estate market. As of Q1 2015, our signals are still globally “green” -- we are not seeing signs of a major downturn or market correction in any of the three regions we monitor. As discussed, for core benchmark driven investors, early warning signals would provide the opportunity to shift portfolios to a more defensive orientation by scaling back various risk positions, reducing leverage, and selling weaker assets. For closed-end funds and other absolute return strategies, warning indicators can be both buy and sell signals, and could have an outsized impact on risk-adjusted returns as timing is central to fund/portfolio performance.

The dramatic collapse of credit markets during the 2007-2009 Global Financial Crisis also plays a big role in our thinking. To summarize these lessons:

1. Capital markets around the world are interconnected. Systemic risks can occur when poor credit decisions in one country affect the investment portfolios of financial institutions in distant countries.
2. Financial innovation outstrips regulators’ ability to track and manage new financial products.
3. Intermediary behavior (originate to distribute) creates mis-alignments between the creators of financial products and the investors in these products.
4. Rating agencies and securities analysts are also under constant pressure to support these financial innovations, rather than to be skeptical or critical of them.
5. The speed of trading in the securities markets and the currency markets today is unlike that of any previous era in financial history. Transmission of crises from one market to another and other “contagion” effects are present in the capital markets to a degree that adds volatility and unpredictability to already-volatile capital markets tendencies.

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