# ECB Workshop on the Handbook on Commercial Property Price Indicators

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## Agenda

- IPD / MSCI Introduction
- History of Index Development
  - Transaction Linked Indicators
  - Valuation Based Indicators
- **Current Position**
- Future Development





# An MSCI Brand

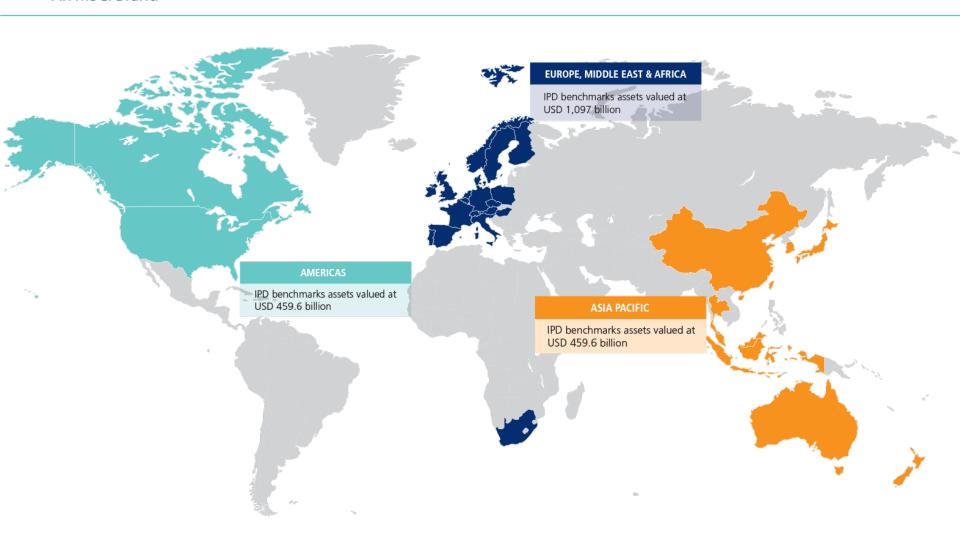
IPD is a world leader in performance analysis for the owners, investors, managers, lenders on and occupiers of real estate. IPD provides critical business intelligence, including analytical services, indices and market information regarding performance and risks to the real estate industry worldwide.

IPD is a subsidiary of MSCI Inc., a leading provider of investment decision support tools to investors globally.



# **IPD Global Coverage**

#### **An MSCI Brand**





## IPD Data Collection & Usage

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Confidentiality and Convenience

Portfolio Data
Collection

Independence and Accuracy

Validation & Aggregation

Flexibility and Customization

Portfolio Analysis
Service

Strict Confidentiality maintained

Our data is sourced from valuations, property management, fund management, and accounting systems

Audit, verification, client sign off and aggregation

Analysis in market standardised measures by over 200 expert analysts Sophisticated analysis

Online interactive reporting tool

Assists you to understand your portfolio performance

Improved decision making.

The reports for all stages of the investment process.

Track record and capital raising.

Reporting provides insights into the management track record. The results can be used to support new and ongoing capital raising initiatives.

Investor reporting.

IPD's clients use PAS to report to their clients. Global investors ask for this analysis from their managers.

Risk management.

Assessing exposure to locations, property types, and sectors. Service monitors a range of risks.

Cost saving/regulatory reporting.

For many clients we are finding ways of helping them reduce their costs.



## IPD Index Development for ECB

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Aug 10

• Initial discussion on existing IPD indicators & possibilities for development

May 12

• ECB CPPI Conference kicks off handbook creation process

Sep 13

• ECB WGGES agrees to adoption of experimental CPPIs

Feb 14

• ECB publish experimental CPPIs using IPD indicators as major input

Apr 14

Delivery of 2013 TLIs & VBIs, since updated for 2014 Q1 and Q2

**Jul 14** 

MSCI announces compliance with IOSCO principles of benchmark creation



## Starting Point of Development

#### **Valuation Based Indexes**

- Based on professional external valuations
- Compiled for investment management purposes

#### Issues

- Market smoothing & Lagging
- Lack of synchronisation of frequency
- Differences in market priorities & approaches to valuation



## Starting Point of Development

#### **Transaction Based Indexes**

- Based on known values of asset sales
- Compiled by public organisations from data collected for taxation reasons,
   ... and by private organisations for commercial purposes

#### Issues

- Transaction volumes can be very low in certain markets at certain times of the market cycle
- Assets are often large & heterogeneous so tend to skew results
- Asset attributes are poorly documented which is a challenge for hedonic modelling



### Development Work – Transaction Linked Indicators

## Quasi-hedonic, hybrid indicator which adds transaction information to valuation information

 Conventional hedonic modelling views real estate prices as a function of various asset characteristics:

Price = 
$$\alpha + \beta$$
 age +  $\beta$  floor space + ..... +  $\xi$ 

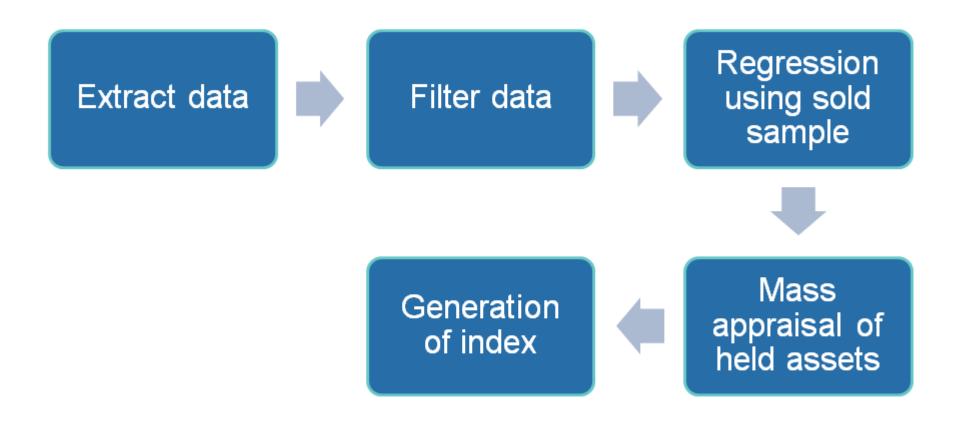
• Valuations should capture differences between assets in a single measure:

Price = 
$$\alpha + \beta$$
 valuation +  $\epsilon$ 

 Can then use coefficients to mass appraise large, consistent sample of assets & generate hybrid market price series using non-traded assets



## Transaction Linked Indicators - Methodology





#### Development Work – Valuation Based Indicators

- Standard IPD Valuation Based Indexes are constructed
  - on the largest sample available each period
  - including capital expenditure & receipts
  - on valuation frequencies widely adopted within national market
- Continuous Coverage Valuation Based Indicators developed
  - on sample held consistent for four consecutive quarters
  - excluding capital expenditure & receipts
  - on a quarterly basis





# **Current Position**

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Country	VBI	VBI CC	TLI	VBI Start Date
Austria	✓ Annual	✓ Quarterly		2004
Belgium	✓ Annual	✓ Quarterly		2005
Czech Republic	✓ Annual	✓ Quarterly		2005
Denmark	✓ Annual	✓ Quarterly	✓ Quarterly	2000
France	✓ Biannual	✓ Quarterly	✓ Quarterly	1998
Germany	✓ Annual	✓ Quarterly	✓ Quarterly	1996
Hungary	✓ Annual	✓ Quarterly		2005
Ireland	✓ Quarterly	✓ Quarterly	✓ Quarterly	1984
Italy	✓ Biannual	✓ Quarterly	✓ Quarterly	2003
Netherlands	✓ Quarterly	✓ Quarterly	✓ Quarterly	1996
Norway	✓ Annual	✓ Quarterly	✓ Quarterly	2000
Poland	✓ Annual	✓ Quarterly		2005
Portugal	✓ Annual	✓ Quarterly		2001
Spain	✓ Annual	✓ Quarterly		2001
Sweden	✓ Annual	✓ Quarterly	✓ Quarterly	1983
Switzerland	✓ Annual	✓ Quarterly	✓ Quarterly	2003
UK	✓ Quarterly	✓ Quarterly	✓ Quarterly	1981



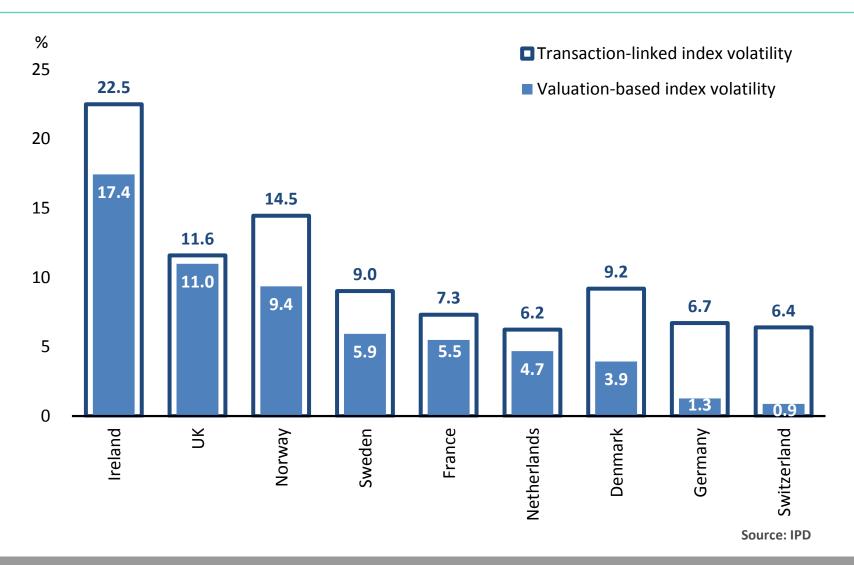
## Current Position – Improvements in last 2 years

- Development of VBI Continuous Coverage series
- Increase in time series length
  - An extra year every year!
  - Longer TLI histories
- TLI added for Italy
- Growth in sample sizes
- Improved market size estimates for composites
- IOSCO compliance



#### Results – TLI & VBI Volatilities

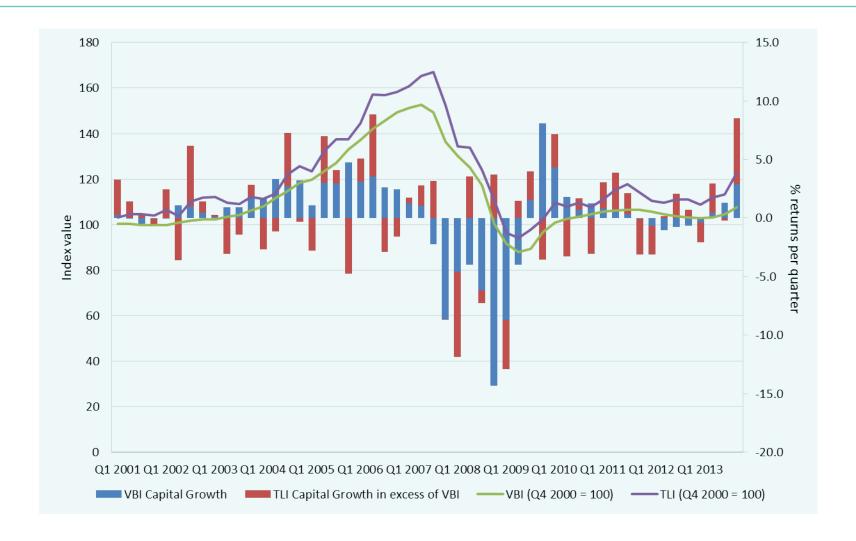
Valuation and transaction based volatility, 10 years to end 2013





## Results - UK

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## Results – Pan Europe

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### **Future Developments**

#### **Improved Data Coverage & Usage**

- TLI market coverage expansion
  - Australia, Canada, USA, Global composite
  - Test existing European markets with VBIs for TLI feasibility each year
- TLI sample size increase
  - Addition of non-domestic assets across Europe
- Quarterly VBI expansion
  - Complement interpolated series on large sample to quarterly valued series on smaller sample



## **Future Developments**

#### **Standardisation & System Improvement**

- IPD Global Data Standards
  - Introducing global consistency on data definitions & methodologies
- Enhanced IT infrastructure & data analytics capability
  - New calculation engine will allow for more flexible data analysis
- Faster publication dates
  - Improved process should lead to shorter delivery deadlines

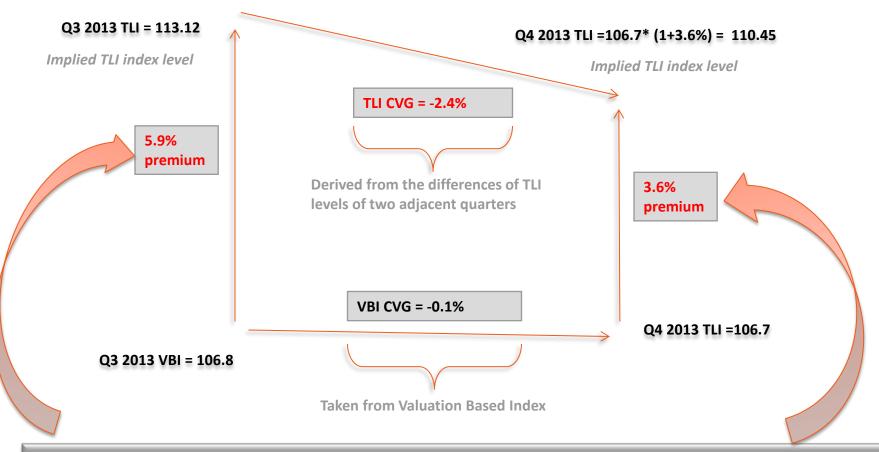
# **Appendix**





# **Transaction Linked Indicators - Methodology**





•An econometric model estimates the premium of the sale price over valuation for the sold properties in that quarter

• Assume the premium would be the same for the unsold properties had they been sold in that quarter



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