Investment appraisals – allowing for density metrics Vanessa Muscarà, M&G Real Estate, Property Research Team

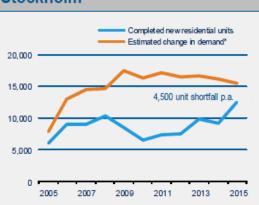
26<sup>th</sup> October 2016

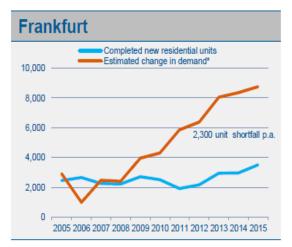


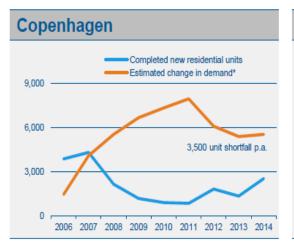
### **Mega trends: Urbanisation**

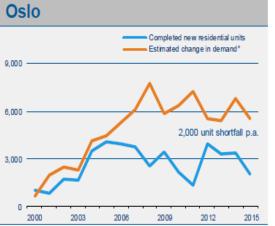
Supply of new housing is not keeping up with population growth













### **Consistent trend throughout European cities**

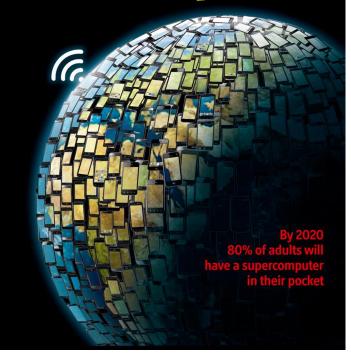


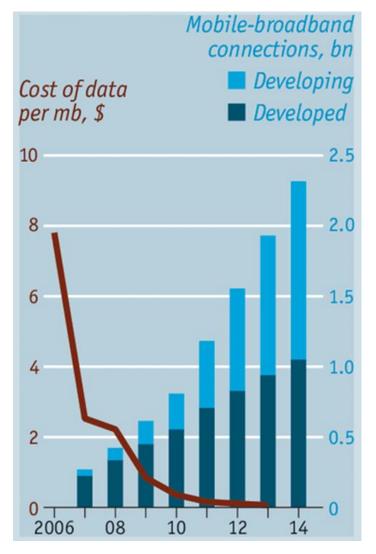
### **Mega trends: Globalisation**

The cost of delivering one megabyte wirelessly has dropped from \$8 to a few cents



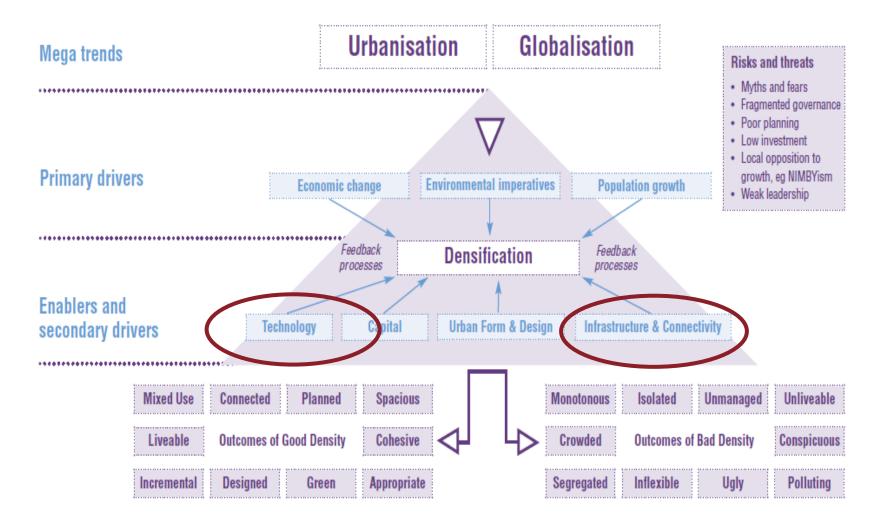
## **Planet of the phones**







## Densification: what does this mean for real estate investors?



Which cities advocate 'good density' practices?



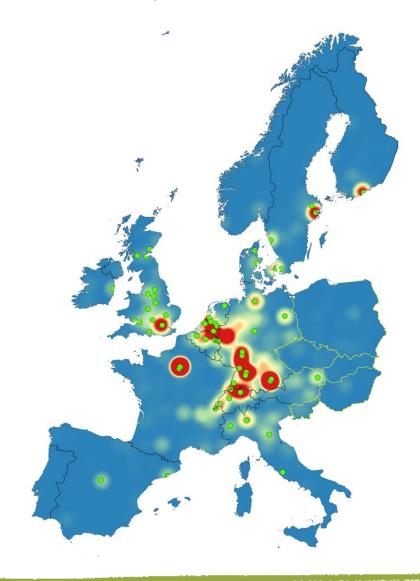
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## **Good Density:** Innovation



# **Good density: Innovation** Cities that capture growth from innovation

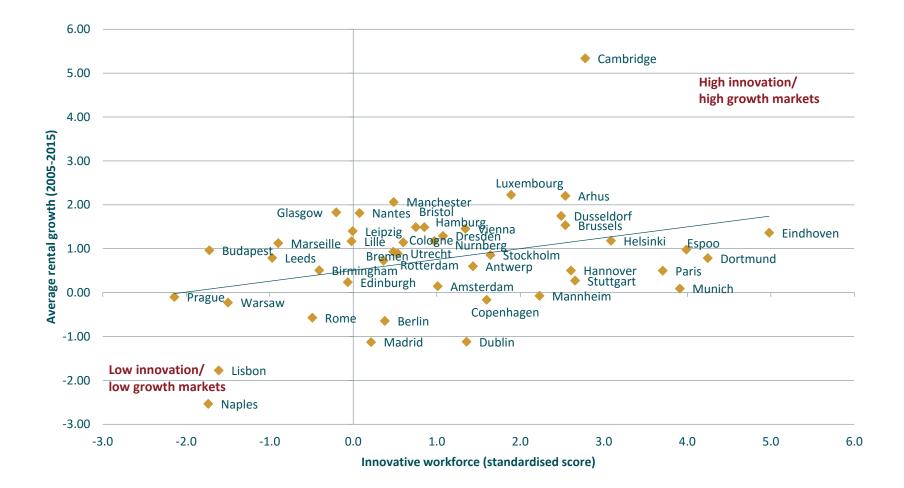


### **INNOVATIVE CITIES RANKING – TOP 20**





### Rental growth vs innovative workforce



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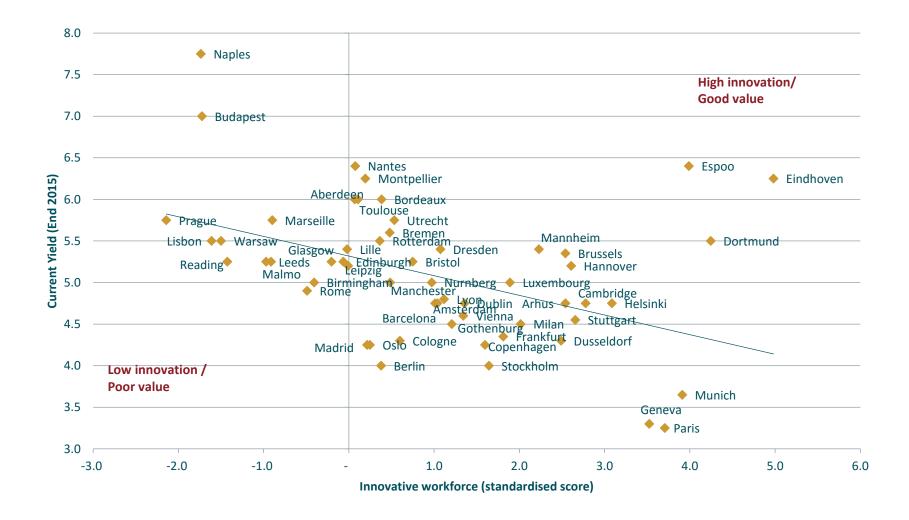
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## Yield vs innovative workforce

Investors are pricing in rental growth expectations



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## **Good Density:** Connectivity





## **Good density: Connectivity**

Cities that capture growth from urban mobility

**CONNECTIVITY SCORE MAP: 64 CITIES STUDIED** 

The darker the colour the higher the connectivity score

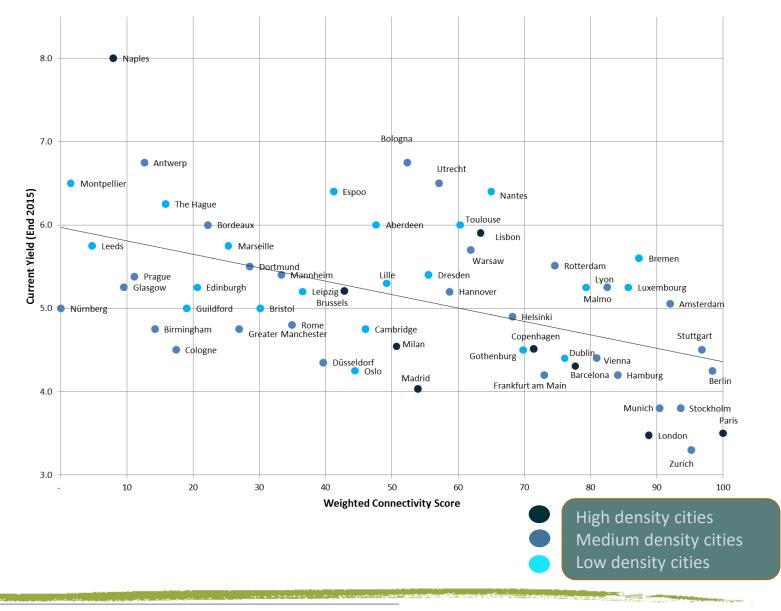
### **CONNECTIVITY RANKING – TOP 20**

СІТҮ	RANK
Paris	1
Berlin	2
Stuttgart	3
Zurich	4
Stockholm	5
Amsterdam	6
Munich	7
London	8
Bremen	9
Luxembourg	10
Hamburg	11
Lyon	12
Vienna	13
Malmo	14
Barcelona	15
Dublin	16
Rotterdam	17
Frankfurt am Main	18
Copenhagen	19
Gothenburg	20



10

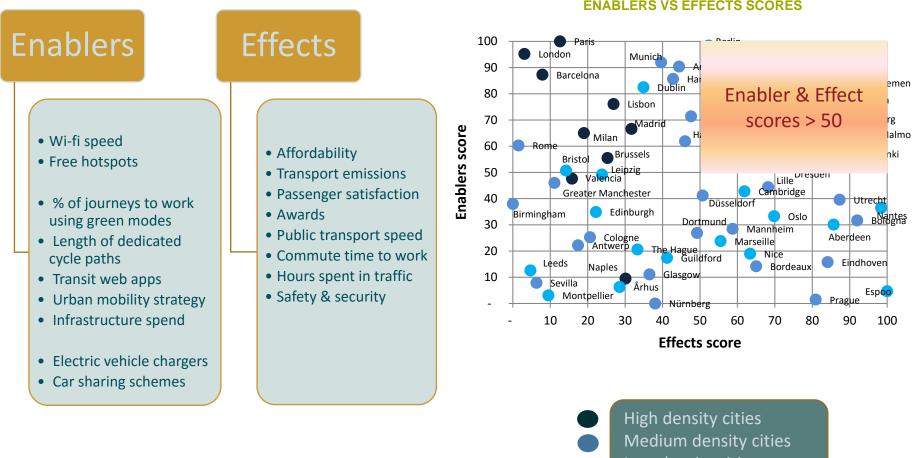
## Identifying value beyond traditional gateway markets





## **Connectivity ranking metrics**

Cities with enabler & effect scores > 50 more likely to provide sustainable property fundamentals



**ENABLERS VS EFFECTS SCORES** 

- High density cities score relatively higher on Enablers
- Low density cities score relatively higher on Effects

Low density cities





## **Investment appraisals** Allowing for density metrics



## **Investment appraisals**

Allowing for density metrics

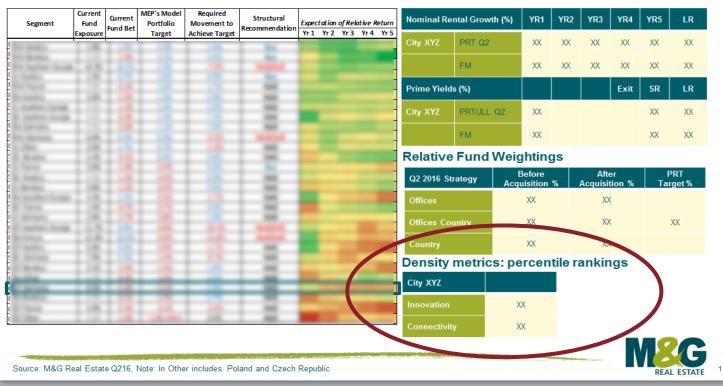
### **INVESTMENT COMMITTEE PAPERS**

### Deal XYZ

### Q2'16 Fund Specific Model Portfolio: Alternative Scenario

### PRT Forecasts vs. FM Appraisal Assumptions

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