

### **Deutsche Wohnen AG**

Capital markets dayNovember 2015

### » Agenda

- 1 Strategy outlook
- 2 Portfolio management strategy
- 3 Technical project management
- 4 Case studies
- 5 Property management
- 6 Q & A

### » Timetable

Registration 9:00 **Presentations** 9:30 Q&A 11:30 **Lunch break** 12:00 **Property tour** 12:45 **End of tour at Tegel airport** 16:30



# » Strategic outlook

### » What Deutsche Wohnen stands for

Focused quality portfolio in dynamic growth regions in Germany

More than 90% of total portfolio value in Core+

Strong like-for-like rental growth and tangible NAV upside potential

c. 3.5%<sup>(a)</sup> rental growth expected in 2015

3 Efficiency leadership with best-in-class EBITDA margin

9M 2015 adj. EBITDA margin of 85.0%(b)

4 Accretive add-on to business model through privatizations

41% gross margin on EUR 193m disposal volume in 9M 2015

High capital discipline drives performance

9M 2015 NAV diluted / FFO I growth per share of 13% and 28%

Efficient and sustainable financing structure with lowest cost of debt among peer group

A-/A3 credit rating with c. 41% LTV and 1.8% average cost of debt

Notes: (a) Letting portfolio; (b) Adjusted for one-offs

# » Clear focus on value creation: internal growth, selected bolt-on acquisitions and efficient financing

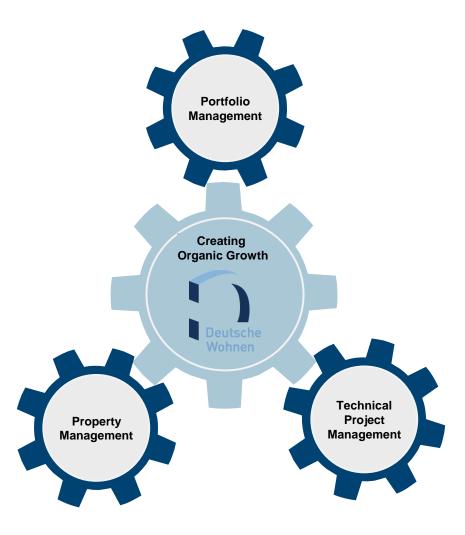
Internal Growth	<ul> <li>Strong fundamentals in our residential markets</li> <li>Clear commitment to continue successful internal growth         <ul> <li>Re-letting crystallizing market rents (rent potential &gt; 20% for 75% of letting portfolio)</li> <li>Established EUR 280m investment program to drive portfolio value</li> </ul> </li> <li>Continuous optimization of platform efficiency</li> </ul>
External Growth	<ul> <li>No attractive consolidation and acquisition opportunities in the listed segment</li> <li>Selected bolt-on acquisitions with strong anchor in Core+         <ul> <li>Concentrated portfolio allowing efficient management</li> <li>Continued application of strict acquisition criteria</li> </ul> </li> <li>Scarcity of acquisition opportunities as a challenge to the sector demands increased importance of asset management expertise and internal growth</li> </ul>
Financing	<ul> <li>Maintain quality investment grade rating, currently A3/A-</li> <li>LTV target of 40-45%</li> <li>High share of secured bank financing to optimize interest cost</li> </ul>

No strategy change in terms of internal and external growth: Focus on Core+ regions, concentrated portfolios and solid financing structure



# » Portfolio management strategy

### » All processes are focused to create value



# » Deutsche Wohnen has an established process for the strategic clustering of its portfolio

Strategy cluster	Residential units	<b>% of total</b> measured by fair value	In-place rent <sup>(a)</sup> 30/09/2015 EUR/sqm/month	Rent potential <sup>(b)</sup> 30/09/2015	Vacancy 30/09/2015
Strategic core and growth regions	143,960	99%	5.85	20.3%	2.0%
Core <sup>+</sup>	128,551	91%	5.90	22.8%	1.9%
Operate	106,054	75%	5.93	21.6%	1.4%
Develop	17,026	11%	5.71	30.7%	3.1%
Dispose	5,471	4%	5.84		7.9%
Core	15,409	8%	5.47	9.9%	2.5%
Operate	14,162	7%	5.47	9.9%	2.4%
Dispose	1,247	1%	5.42		3.7%



Notes: (a) Contractually owed rent from rented apartments divided by rented area; (b) Unrestricted residential units (letting portfolio); rent potential = New-letting rent compared to in-place rent (letting portfolio)

# » Deutsche Wohnen's active portfolio management is based on an analytical scoring approach



- Asset-by-asset strategy approach
- Efficient scoring and clustering approach focussing on key KPI's
- Zoom in on strategic Core and Core+ regions and highly concentrated locations
- Scoring model covers all relevant aspects

### » Macro scoring model to rate the housing market

### **Key scoring parameters**

#### Historic real estate data

- Change in households
- Change in-place rent
- Population growth

### Prognostic real estate data

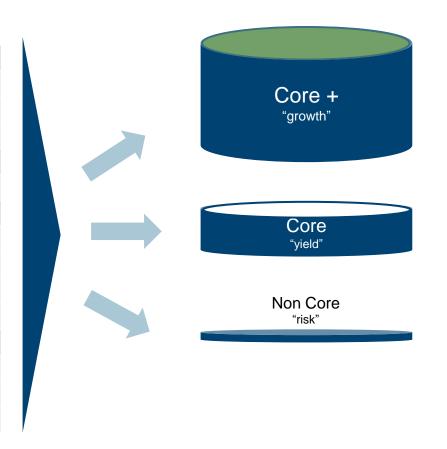
Population and household prognoses

#### Macro economic data

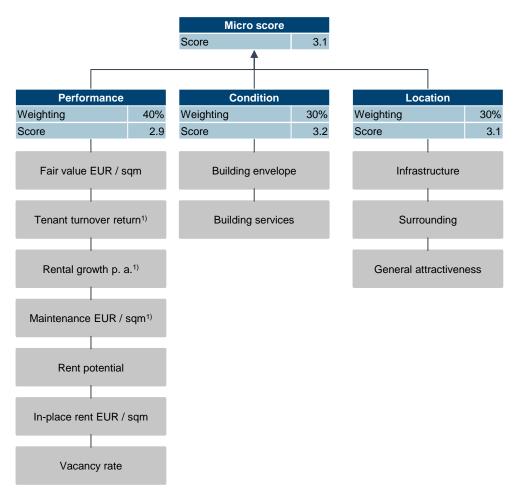
- Unemployment rate
- Change in unemployment rate
- Purchase power per capita
- Change in purchase power

#### Infrastructure data

- Students per inhabitants
- Change students per inhabitants
- High qualified employees per inhabitants



### » Micro scoring structure to rate the specific asset



#### Traceable and consistent classification

- Property-on-property base
- Identify risks & opportunities
- Based on periodically analyzed key performance indicators
- Using in-house information systems
- Using scoring system

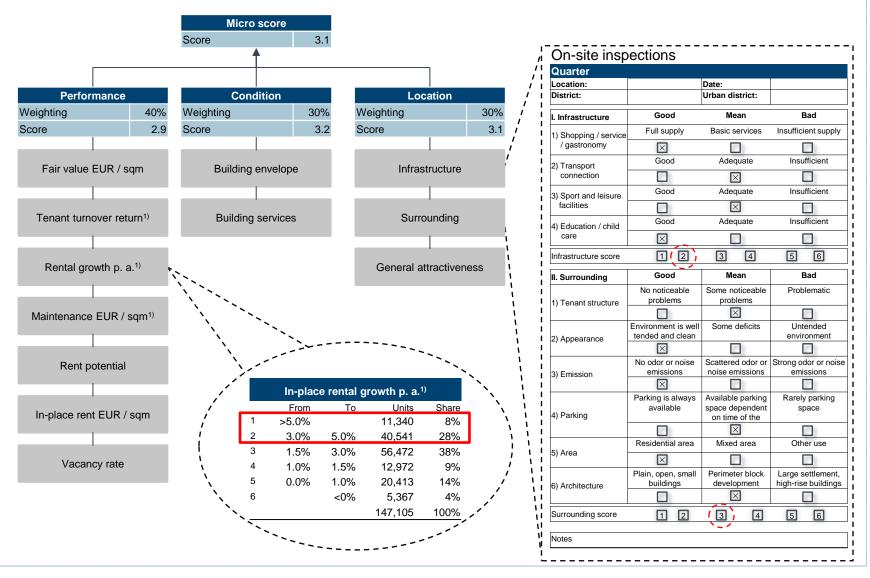
1 2 3 4 5 6

- Scalable ranking of properties / quarters / portfolios
- Benchmark for sales and acquisitions

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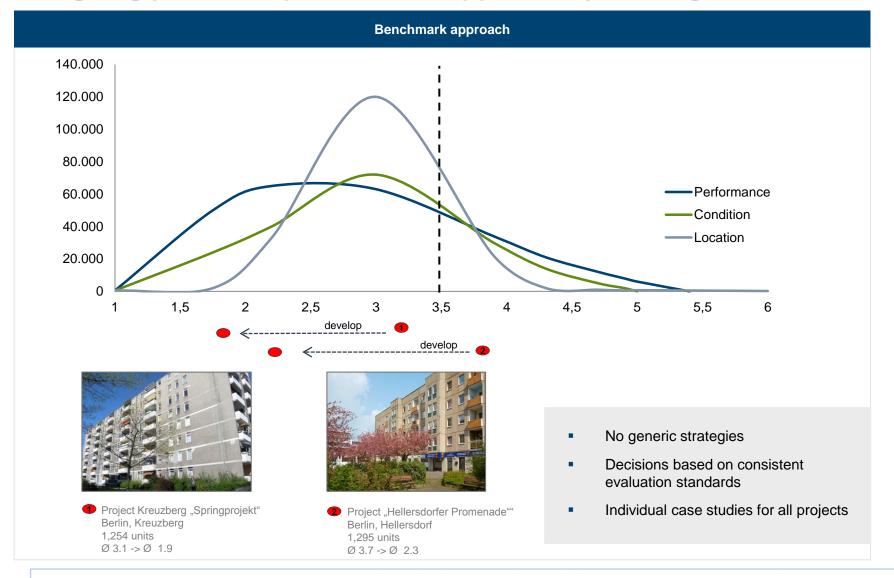
Scoring provides the basis for portfolio decisions (invest, operate, dispose, buy)

### » Micro scoring structure example - simple, important key figures



<sup>1)</sup> Based on average over three years

### » Ongoing portfolio optimization supported by scoring



### » TOP – Best score settlements – 20% of our properties are listed

### Carl Legien, Berlin-Prenzlauer Berg



#### Scoring output

Score	1.9
Rank	1 / 2,149
Performance	1.6
Condition	2.2
Location	2.3

### Key data

Residential units	1,145
In-place rent (EUR/sqm/month)	7.03
New-letting rent (EUR/sqm/month)	8.85
Fair value (EUR/sqm)	1,752

#### Onkel-Toms-Hütte, Berlin-Zehlendorf



### Scoring output

Score	2.2
Rank	29 / 2,149
Performance	1.8
Condition	2.3
Location	2.6

### Key data

Residential units	1,195
In-place rent (EUR/sqm/month)	7.33
New-letting rent (EUR/sqm/month)	9.08
Fair value (EUR/sqm)	1,850

#### Krankenhausviertel, Berlin Pankow



### Scoring output

Score	2.5
Rank	107 / 2,149
Performance	2.4
Condition	2.5
Location	2.4

#### Key data

Residential units	1,473
In-place rent (EUR/sqm/month)	6.43
New-letting rent (EUR/sqm/month)	8.06
Fair value (EUR/sqm)	1,528

### » FAMOUS – 5% of our properties are world cultural heritage

### Hufeisensiedlung, Berlin, Britz



#### Scoring output

Score	2.6
Rank	200 / 2,149
Performance	2.1
Condition	3.3
Location	2.3

### Key data

Residential units	1,682
In-place rent (EUR/sqm/month)	6.21
New-letting rent (EUR/sqm/month)	7.52
Fair value (EUR/sqm)	1,379

#### Weiße Stadt, Berlin Reinickendorf



### Scoring output

Score	2.6
Rank	241 / 2,149
Performance	2.4
Condition	3.3
Location	2.4

### Key data

Residential units	1,201
In-place rent (EUR/sqm/month)	5.93
New-letting rent (EUR/sqm/month)	6.62
Fair value (EUR/sqm)	1,045

### Siemensstadt, Berlin Spandau/ Charlottenburg-Wilmersdorf



### Scoring output

Score	2.6		
Rank	222 / 2,149		
Performance	2.6		
Condition	3.2		
Location	2.2		

### Key data

Residential units	3,636
In-place rent (EUR/sqm/month)	5.70
New-letting rent (EUR/sqm/month)	7.13
Fair value (EUR/sqm)	1,159

### » FLOP – Worst score settlements

#### Hellersdorfer Promenade, Berlin-Hellersdorf



#### Scoring output

Score	3.7
Rank	1,933 / 2,149
Performance	2.9
Condition	4.5
Location	3.1

### Key data<sup>(a)</sup>

Residential units	1,148
In-place rent (EUR/sqm/month)	~4.00
Market rent (EUR/sqm/month)	4.80
Purchase price (EUR/sqm)	536

### Volksparkviertel Lichtenrade, Berlin-Tempelhof-Schöneberg



### Scoring output

Score	4.0		
Rank	2,098 / 2,149		
Performance	4.6		
Condition	3.9		
Location	3.3		

### Key data

Residential units	864
In-place rent (EUR/sqm/month)	5.09
Market rent (EUR/sqm/month)	5.00
Sales price (EUR/sqm)/ margin	1,190 / 45 %

### Westl. Heerstraße, Berlin-Spandau



### Scoring output

Score	3.9
Rank	2,038 / 2,149
Performance	4.2
Condition	4.1
Location	3.4

### Key data

Residential units	3,286
In-place rent (EUR/sqm/month)	5.14
Market rent (EUR/sqm/month)	5.10
Sales price (EUR/sqm)	940 / 22 %

Notes: (a) at acquisition

### » Development Portfolio – fundament for creating sustainable growth

### Investment identification process

#### Portfolio management

- Development and needs of the market
- Realize rent potential (~30%)
- Change tenant structure
- Value enhancement
- Vacancy reduction
- Handle rent cap
- Optimize operating expenses

#### **Deutsche Wohnen Portfolio**

EUR 280m 2015-2018 EUR 120m after 2018 EUR 400m total invest Ø EUR 360 /sqm

#### Part of our program:

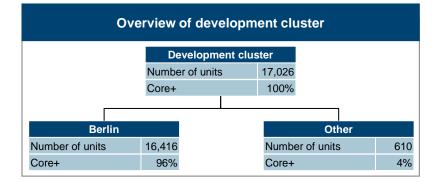
70% pipework restoration 60 % roof overhauling 50 % thermal insulation

→ solving future problems, invest in our intrinsic value

Upgrade, create new products

#### **Technical Project Management**

- Condition enhancement
- Development potential
- Capex backlog
- Maintenance needs
- Eliminate toxic substances
- Energy efficiency
- Flexibility of products



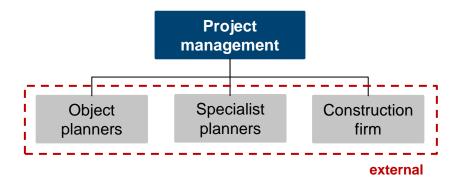


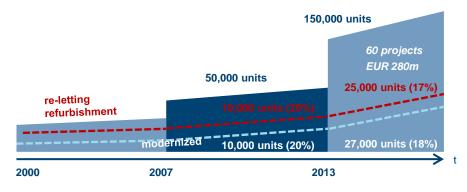
Preference for long term value creation instead of short term yield consideration



# » Technical project management

### » Long-standing experience in technical project management





### **Key responsibilities**

- Technical portfolio management
- Technical due diligence
- Project development
- Project coordination and control: Purchase of capital goods + organization
- costs, time and quality management

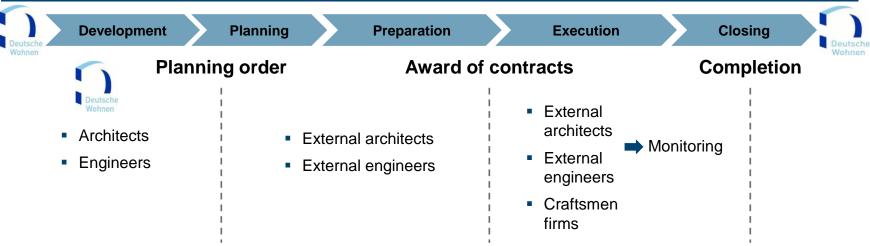
### **Key figures**

- 20 employees
  - Thereof 15 architects/ engineers
- Investment volume EUR 90m p.a.
- > 20,000 apartments renovated since 2000 (inhabited condition)

Deutsche Wohnen creates, adapts and preserves buildings and living spaces in order to ensure sustainable demand for its product and to optimise property management and maintenance costs

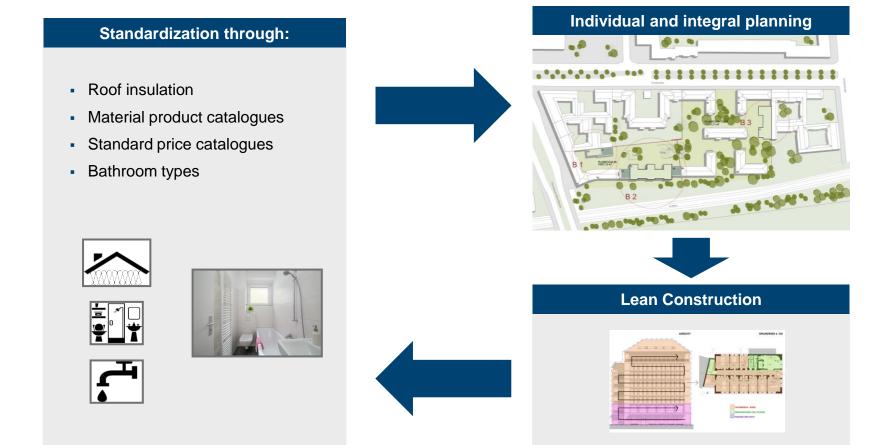
### » Stringent project management process ensures seamless execution





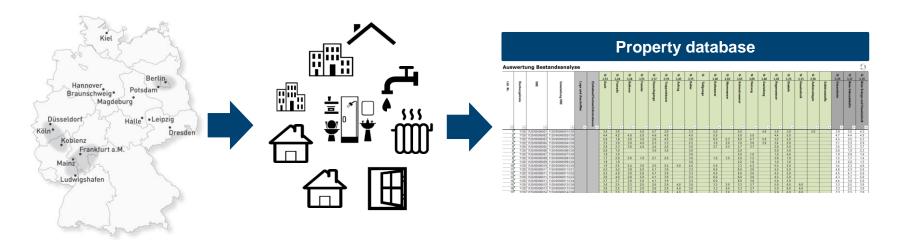
Deutsche Wohnen has experienced architects and engineers as well as a network of planners and firms from the region stand for competence and flexibility

### » Reasonable use of standardization to drive efficiency



Individual planning for projects, while standardizing processes

### » In-depth technical knowledge of our assets is essential



### **Technical portfolio analysis**

- 150,000 apartments
- 2,000 business entities
- 50 construction components

- Modernization potential
- Maintenance needs
- Identifying technical risks



Information management via custom developed in-house app for on-site inspection



# » Sample projects

### » Hellersdorfer Promenade – enhancing value

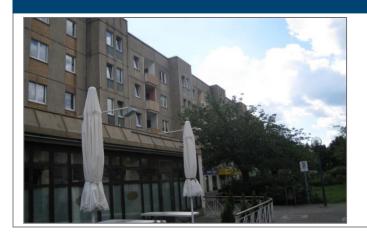




	Background & KPI's				
				Rent (EUR / sqm / month)	FV (EUR / sqm)
History		<ul><li>~1,150 apartments in Berlin- Hellersdorf</li><li>Acquired in 2013</li></ul>	Unrefurbished prefabricated buildings	~4 (in-place)	~540 (11x IPR)
Present		<ul><li>Started modernization in 2014</li><li>Work in progress</li></ul>	Changing appearance	4.80 (in-place)	-
Future		<ul><li>Product in line with market</li><li>Rent significantly increased</li><li>Vacancy reduced</li></ul>	Revitalized settlement	>6.5	~1,300 (40% uplift)

### » Hellersdorfer Promenade – enhancing value

### **Overview of project**





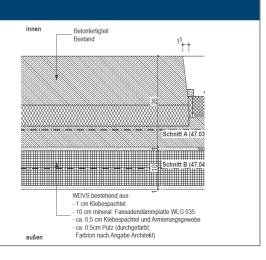
#### **Technical background**

### Modernization

- Built in the 1980ies
- Prefabricated building
- Renovation of technical building equipment
- Insulation of the facade
- Balconies added
- Renewal of heating system (central heating)
- EUR 35m total investment
- EUR 420 per sqm

## Thermal insulation composite system

- Can be added onto an existing façade
- Consists of:
  - 1cm adhesive filler
  - 10cm mineral façade insulation panel
  - 0.5cm adhesive filler
  - 0.5cm plaster



# » Kreuzberg – creating a new residential quarter





Background & KPI's						
					Rent (EUR / sqm / month)	FV (EUR / sqm)
History		:	Social housing from the 60ies & 70ies at the edge of West-Berlin High riser, socially troubled area, rent restrictions, weak appearance	Welfare for tenants	<5 (in-place)	-
Present		:	Located in the heart of Berlin Rent restriction expired but limited in-place-rent development Re-letting with 30-40% upside shows potential	Cash cow with capex backlog	>8 (re-letting)	c. 1,300
Future		•	Energetic modernization, revitalization and densification with attic apartments and additional buildings	Attractive City Apartments	>12 (market)	>4,500 (market sales)

### » Kreuzberg – creating a new residential quarter

### **Overview of project**







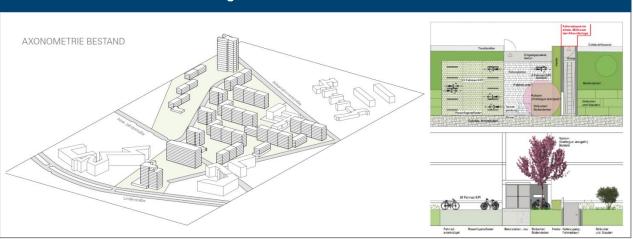
### **Technical background**

#### Modernization

- Built in the 1960ies
- Renovation of technical building equipment
- Energetic refurbishment
- New outdoor facilities
- EUR 83m investment,
   EUR 550 per sqm

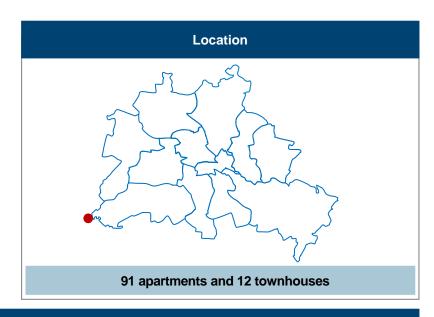
#### Redensification

- Redensification and attics for 400 new apartments
- EUR 67m total volume
- EUR 2,400 per sqm



### » Potsdam – new construction and modernization





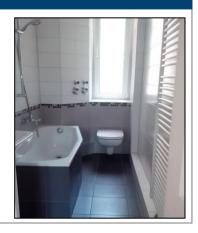
	Background & KPI's					
					Rent (EUR / sqm / month)	FV (EUR / sqm)
History	<b>:</b>	Acquired portfolio with 90 unrefurbished apartments Empty plot of land	Cash cow with capex backlog		<4.5 (in-place)	-
Present	<b>:</b>	Modernization of the existing buildings New Construction of 103 apartments	Higher standard and additional product for letting		re-letting rents: ~9 for existing ~ 11 for new flats	-
Future		Privatization	Condominiums for owner occupiers		-	>5,000 (market sales)

### » Potsdam – modernization

### **Overview of project**







### **Technical background**

#### Modernization

- Built in the 1930ies
- Renovation of technical building equipment
- Renewal and insulation of the roof
- Bathroom refurbishment
- Renewal of heating system
- New outdoor facilities
- EUR 3m total investment
- EUR 620 per sqm





### » Potsdam – new construction

### **Overview of project**







### **Technical background**

#### **New construction**

- 91 apartments (25 barrier free)
- 12 town houses
- 3 elevators
- Flexible plots
- Floor heating
- Mineral insulation
- Loggia / balconies
- Parquet floor
- EUR 20m investment
- EUR 2,200 per sqm construction cost



# » Long term new construction potential

		Quickly realizable	Large projects
ha	Plot size	61 ha	105 ha
	Number of apartments	c. 1,700 units	c. 7,000 units
$m^2$	Living space	c. 105,000 sqm	c. 500,000 sqm
€	Invest	c. EUR 300m	c. EUR 1,300m



# » Property management

### » Property management in numbers

### **Central Functions**

# Berlin & Frankfurt 230 Employees

- Responsibilities:
  - Rent development and operating cost management
  - Receivables management
  - Service center
- KPIs:
  - Lfl-rental-growth without re-letting of 2.2% in 2015
  - Rental loss c. 0.6% on gross rents
  - \_ Ø 2,500 calls per day handled by service center

### **Local Functions**

# 16 Service points with 5,000 to 12,000 units each 335 Employees

- Responsibilities:
  - Re-letting
  - Commercial services
  - Technical services
- KPIs:
  - Vacancy rate: 2.1%
  - \_ Lfl-rental growth of 1.3%
  - Re-letting: Average ROI of >15%
  - 12,000 new contracts p.a.

Flexibility requirement to adjust the process, depending on product and market

Avoid interfaces for higher efficiency

### » Property management is focused on rental growth

#### **Modernization Current regulations** Generally market rent level (no limit) New Upgrading apartments In tight housing markets "local customary rent" + (demand driven) contracts 10% Maximum increase of 15% in 4 years (Berlin) Not higher than the so called "local customary rent" proven by: To improve equipment - Official rent table (Mietspiegel) or of the building or Unrestricted 3 comparable apartments or apartment to get into a units A report of an official surveyor better cluster of the Mietspiegel (allowing for **Existing** Lease contracts with: indexation bound to CPI: a higher rent) contracts graduated rents In case of modernization works: Complex projects 11% of the modernization cost can be charged to (mainly complete the tenant (per sqm/ per month) refurbishments) Cost rent principle – only changes of the cost rent allow rent increases Restricted Cost rent calculation strictly regulated by law units Many different social housing programs with special calculation rules

### » Standardized process for repairs ensuring efficient daily business

Outsourced functions

Notice of damage (E-mail or telephone)

Service provider sends craftsman

Repair (90% within 48 hours)

Payment by DW









- 200k single cases p.a.
- Usually tenant calls service number
- Gets directly connected with service provider

- Service Providers have fixed locations/ responsibilities
- Logistics
- Staff
- Material

- Small repairs and urgent damages immediately
- Bigger repairs
   (>1.000 EUR): add.
   comparable offers to
   ensure best pricing
- Small repairs (<1,000 EUR) covered by flatrate
- Monthly charging

80% of the ongoing maintenance is covered without cost and organizational risk

Only ~2% total cost increase since implementation in 2007, current pricing locked in until 2019

### » Efficient but individual re-letting investment

Vacant apartment

Letting agent defines refurbishment needs

Outsourced function

Service Provider makes refurbishment

Realization of higher rent potential









#### Letting agent:

- Verifies condition of apartment
- Compares condition with market requirement
- Starts direct re-letting process or calculation for refurbishments

- Calculation phase
- Yield on average ~15%
- Standardized yield calculation
- Modular concept
- Catalogue for standard packages in place (bathroom, floor...)

- Recurring workstreams / measures
- Contracted standard prices
- Process takes max.20 days
- No warranty risk at DW



Unit turn process ensures high returns while reducing cost risk and keeping high flexibility

### » What is a service provider?









#### Business model: Technical Facility Management

- Many established players with 40-600k units under management (each)
- Competitive market in areas with high portfolio concentration
- Main service components:
  - Coordination of works (maintenance, capex, refurbishment)
  - Call center
  - Logistics & Material
  - Staff
- Execution of facility management work

#### High specialization, purchasing power and cost efficiency are the basis for established market participants

Landlord

- In general: same approach of standardization and industrialization
- Main difference: allocation of opportunities and risks from HR and administrative perspective



# » Summary

### » DW's investment approach primarily driven by value growth

### Our general principle

- Generate (1) value potential which is most important and (2) rent potential
- Invest into assets with the highest rent upside (30% in our develop segment)
- Decisive is to look at the total return (value- and rental growth)

2014 / 2015e			
Cluster	Growth driver	ROI	
Operate (120k units)	Rent table adj.	13% <sup>1)</sup>	
	Re-letting	~15%	
Develop (17k units)	Value growth	>20%2)	
Total 137k units		10-15 <sup>%3)</sup>	

Operate segment (82% of total)

- Organic growth through rent-index adjustments with limited investments and re-letting
- Spending on re-letting with ~15% ROI on average
- Re-letting is a core growth driver which covers on av. ~40% of annual lfl-rental growth

Develop segment (11% of total)

- EUR 280m investment program in Core+ regions to unlock more than 30% rent potential and to realize inherent value-upside (>20%)
- Capturing a large part of the gap to market rents through modernization resulting in a higher fluctuation
- Creating a new product with much higher rent multiples double digit value growth

Return based on annual IfI-rental growth of 10-15%, additional return from double digit value growth from modernisation projects

<sup>1)</sup> Based on EUR ~9 per sgm maintenance and 1.2 - 2.1% rent increase 2) On top return from rent table adj. and re-letting, 2) Excl. value growth

### » Realized yields – example Onkel-Toms-Hütte

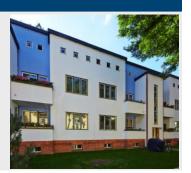
### Return based on rent increases (cash yield)

- Rent increase after modernization ~30% within three years
- Yield based on total investments at ~5%, however resulting in ~9% based on market rents
- Significantly higher yield when deducting the maintenance part

Finished in 2015	Onkel-Toms-Hütte Zehlendorf
Units	806
Investment volume in EUR m	23
Investment volume per sqm	438
Previous rent per sqm	5.8
Rent after modernization	7.5
Market rent per sqm	9.1
Rent increase <sup>1)</sup>	30%
Unlevered yield	4.6%
Unlevered yield based on market rent	9.4%

### Return deriving from value creation decisive

- Based on historic evidence completely modernized Core+ properties bear a price increase potential of 20-30% with a much higher NAV growth potential
- Creation of a new product with privatization potential leads to additional price upside



Value before mod. EUR per sqm	1,255
Rent multiplier before	19.6x
Value plus mod. EUR per sqm	1,693
Current book value EUR per sqm	1,862
Current rent multiplier	20.6x
Return from price dev. on investment	38%
Return from price dev. on GAV	13%
Estimated priv. price EUR per sqm	3,600
Add. upside EUR per sqm	1,738
Add. NAV upside	~190%

Double digit total return on investment (~5% cash yield + NAV growth based on price development)

Hidden value potential to be realized over time or by privatization (~100% uplift potential)



# » Q&A

### » Disclaimer

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