

Commercial Property Price Indices for Greece

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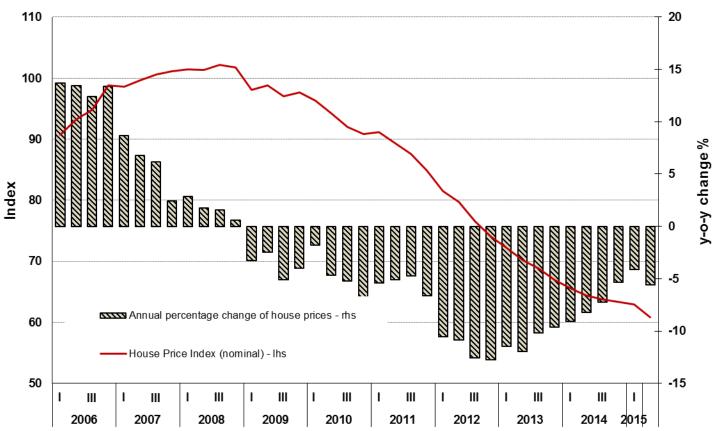
1.1 Bank of Greece - Synopsis of activities

- Housing market data collection from credit institutions (on a monthly basis)
- Quarterly Residential Property Price Indices (Press Releases)
- Short-term Indicators for the Greek real estate market (revised every two weeks)
- Quarterly survey among the real estate agencies
- Transaction data from various sources
- Regular monitoring and reporting in the publications of the BoG
- ✓ Research



1.2 Residential Property Price Index

House Price Index



✓Cumulative adjustment of 40.5% in nominal terms since the onset current financial crisis (2008 Q3 - 2015 Q2)

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Source: BoG, data collected from credit institutions

2. Commercial property market in Greece

2009-2013

Property market deeply affected by long lasting debt crisis

✓ Adverse commercial property market conditions reflect historically low levels of confidence in all aspects of economy

- Occupiers shifting towards cheaper premises
- Increasing vacancy rates, decreasing demand
- Construction activity extremely limited

2014

- Commercial property still under pressure
- Rents at very low levels
- Stabilization trends in values and yields
- Very limited transaction volume
- Significant number of new lease contracts in retail and food
- A few major deals in the warehouse sector
- Increasing investors' interest with a wait-and-see approach

2015

Political environment put on hold further developments and prospects
?

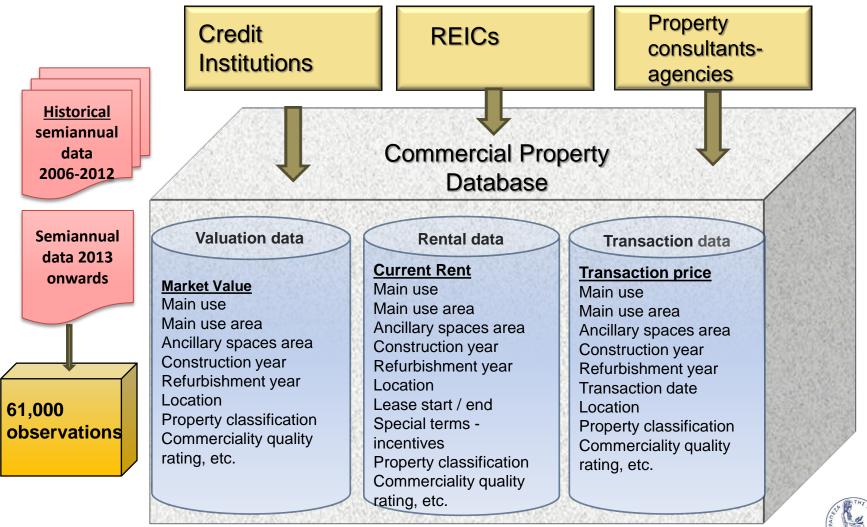


3. Bank of Greece initiative towards a CPPI

- ✓ Governor's Act 9/10.01.2013 launching the collection of commercial property data from REICs
- ✓ Governor's Act 23/26.07.2013 launching the collection of commercial property data through credit institutions
- Collection of historical commercial property data from the recently repealed Greek Body of Chartered Surveyors
- Collaboration with private sector companies for the collection of transaction data and professional views on yields, trends, prices etc.
- Enhancement of real estate agencies quarterly survey to include transactions data
- Exploitation of collateral valuations performed under Asset Quality Report exercise
- Discussions with RICS for the potential collaboration in a quarterly survey on property market sentiment



4. Data collection





5. Challenges

Properties owned or occupied by credit institutions

- Sample bias
- Rental values
 - Relocation inflexibility
 - Leases "inertia"
 - Difficulty in reviewing rents in case of no agreement by both parties, legal framework
- Current circumstances
 - Greek financial system restructuring (mergers, acquisitions, winding down etc.)
 - Shrinkage of the branches network Difficulty in monitoring properties that are abandoned
 - Difficulty in regaining accurate historical data

REICs portfolios

- Limited sample, low geographical distribution
- Mainly comprising of properties leased by credit institutions
- Main source of valuation and yield data



6.1 Methodology outline

DATA

PROCESSING

- ✓ **Sample**: Upper class commercial properties in prime and secondary locations
- Retail rents : 37,411 observations (16,357 within greater Athens area)
- ✓ Office rents: 5,891 observations (3,846 within greater Athens area)
- Retail values: 11,206 observations (1,440 within greater Athens area)
 - Office values: 6,416 observations (4,597 within greater Athens area)
- Small and heterogeneous sample of warehouses, industrial or other commercial properties



Data cleaning, filtering and analysis

- Calculation of mean value per sq.m. of <u>main use</u> and mean rent per sq.m./month for each property in the dataset
- Correction of rents for incentives and special terms
- Identification of fixed baskets per geographical area (and submarket within Athens)
- Application of statistical methods to improve quality and quantity of data within fixed baskets (interpolations, extrapolations, imputations)
- Filtering for outliers using both statistical and empirical processes



6.2 Methodology outline

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Methodology depending on data quantity and quality

- Construction of 3 "fixed lease baskets" and 3 "fixed valuations baskets", one for each geographical sector (Athens, Thessaloniki, Rest of Greece)
- Fixed baskets "enhancement" through alternative sources in special cases (e.g. limited sample)
- Analysis based on mean values (market and rental) per square meter
- Evaluation of alternative weighting schemes
- Alternative results evaluation
- Feedback

METHODOLOGY

DUTPUI

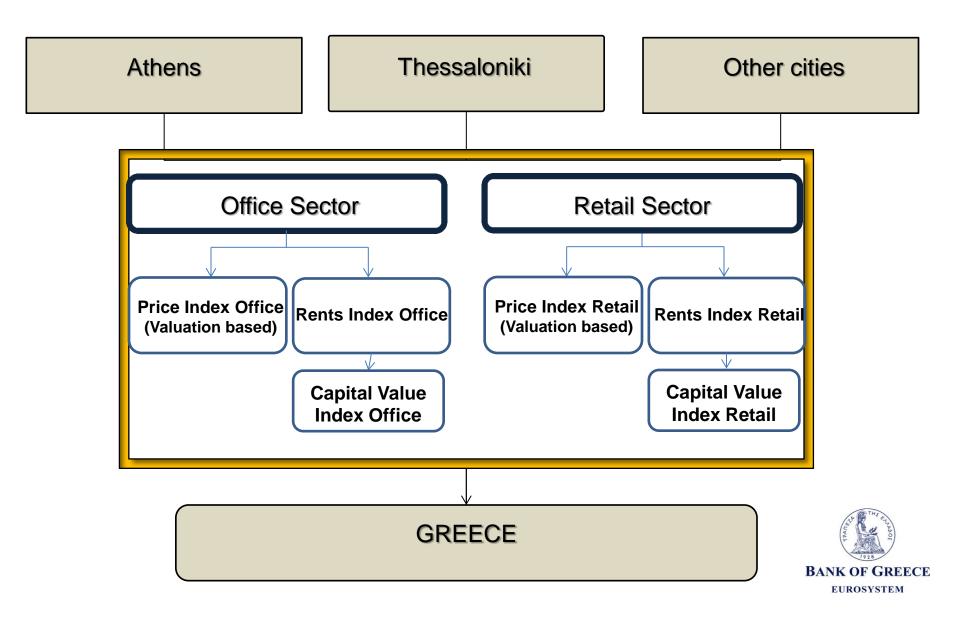
- Finalization of methodology
- Verification of process and output

Indices:

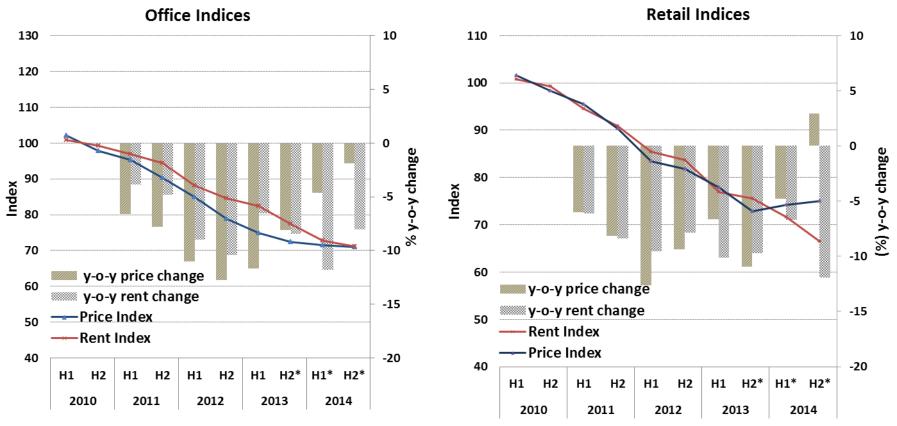
- Price Indices (valuation based)
- Rent Indices
- Capital Value Indices (as mean yearly Rent /mean y-o-y yield)



6.3 Methodology outline



7. Commercial property indices



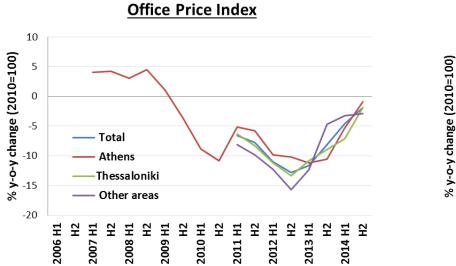
Source: BoG, data collected from REICs and credit institutions

- Prime office prices cumulative adjustment (2010H1-2014H2): 30.4%
- ✓ Office rent cumulative adjustment (2010H1-2014H2): 29.3%

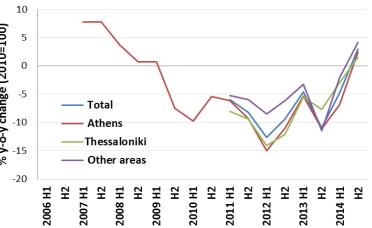
- Prime retail prices cumulative adjustment (2010H1-2014H2): 28.3%
- Retail rent cumulative adjustment (2010H1-2014H2): 33.9%

8. Commercial Property Indices by region *

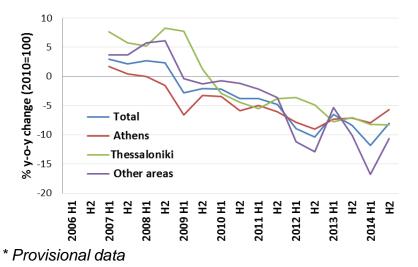




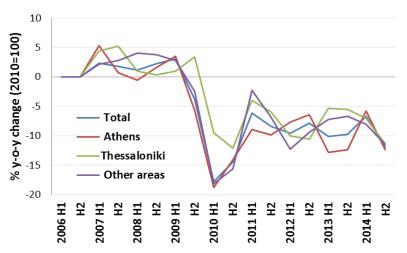
Retail Price Index



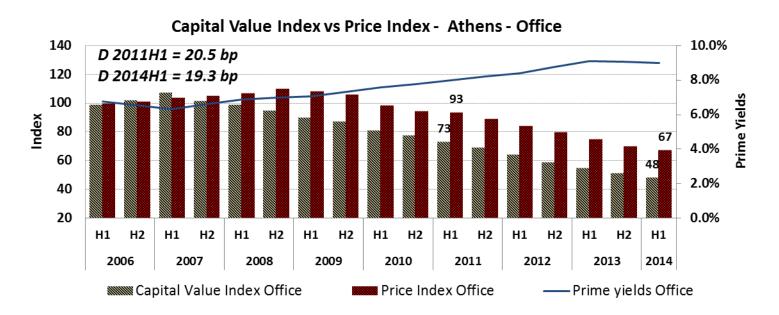
Office Rent Index

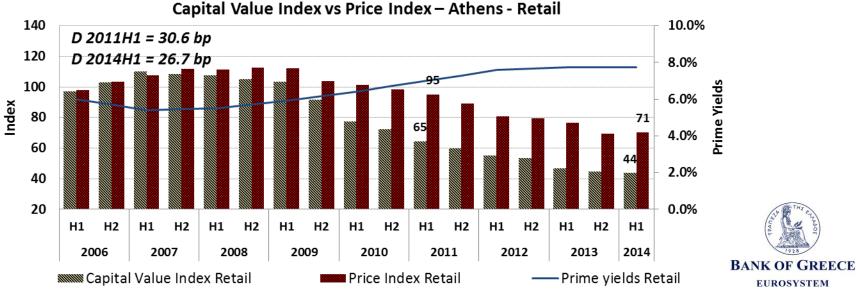






9. Commercial Property Price and Capital Value Indices *





* Provisional data

10. Pending Issues

Further actions

- Expand sources (e.g. new lease contracts database Ministry of Finance) and enhance database
- Produce submarket indices for Athens
- Improve timeliness (currently app. t+4m)
- Develop a hybrid method for exploiting transaction data along with valuation data
- Apply and test hedonic modelling
- Expand research and published information



11. Market prospects

- Stabilization trends until 2014H2
- Immediate need for reforms
 - stable taxation regime
 - bureaucracy
 - regional planning and land uses framework
 - complicated and time consuming procedures
- Privatizations

- Public property development
- Professionalism and transparency
- Political and financial stability!



Thank you!

For any further information please do not hesitate to contact us:

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