



EU infrastructure investment – rural aspects

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Outline



- 1. EU28 infrastructure investment is diminished and lagging recovery
- 2. Reasons? Saturation unsatisfactory as explanation
- 3. Macrofinancial factors
- 4. Local context
- 5. Rural aspects





EIB Municipalities Survey



Key facts

- The EIB surveyed 555 municipalities in 2017 in 28 Member States;
- Questions about infrastructure quality, investment activities and barriers;
- Focus on larger municipalities;
- An add-on module to the annual EIBIS survey of nonfinancial corporates in EU.

Motivation

- Important share of public infrastructure expenditure;
- Important local aspect of infrastructure investment needs, gaps and impediments.



Responsibility for infrastructure investment *Share of municipalities, in %*









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1. Infrastructure Investment in EU28





Note: Based on EIB Infrastructure Database. Data are missing for Belgium, Croatia, Lithuania, Poland, Romania and the UK. PPP: public-private partnership. 2017 is provisional. Authors' calculations. Source: EIB infrastructure database.











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2. Reason? Saturation an unsatisfactory answer...



Three arguments:

- 1/3 of surveyed municipalities deem investment levels insufficient
- Infrastructure dropped most in regions reporting poor quality
- Infrastructure improvements linked to private sector capacity to benefit from economic opportunity



Perceived underinvestment



share of municipalities by sectoral orientation, in %

Source: EIB Municipalities Survey 2017.





2. Reason? Saturation an unsatisfactory answer...



Three arguments:

- 1/3 of surveyed municipalities deem investment levels insufficient
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Perceived underinvestment

share of municipalities by infrastructure quality in %



Source: EIB Municipalities Survey 2017.





2. Reason? Saturation an unsatisfactory answer...



- 1/3 of surveyed municipalities deem investment levels insufficient
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Infrastructure quality & competitiveness



Source: Bureau van Dijk's ORBIS database, comprising about 100 000 firms per year in 236 European regions (NUTS-2) in the years 2005-15; (ii) Eurostat data on the level of infrastructure in corresponding regions; US industry growth data at NACE2 two-digit level from the EU KLEMS database.







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3. Macrofinancial factors



Social spending crowded out public capital expenditure

Investment vs fiscal stance



Change in Unemployment 2005-2009 vs 2012-1016 (in pp)

Note: The larger the bubble size, the greater the downgrade in sovereign rating. The black circles indicate rating upgrades. To calculate rating scores, sovereign ratings from S&P, Moody's and Fitch were used and converted into numerical values.

Source: Eurostat, Projectware, EPEC for government infrastructure investment, Eurostat for unemployment figures and EIB for rating changes.





Shift in budget allocation



Source: Eurostat.







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4. Local context matters



Low infrastructure quality associated with financing constraints



a. Infrastructure financing (in %)

Source: EIB Municipalities Survey 2017.

Source: EIB Municipalities Survey 2017.





b. Major obstacles (% of municipalities)



4. Local context matters



Infrastructure quality and governance go hand-in-hand

Independent Assessment

share of municipalities, in %





Importance of Assessment

share cent of municipalities, in %



Source: EIB Municipalities Survey 2017.











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perceived underinvestment

Greater share of rural municipalities report infrastructure deficiencies



poor perceived quality in % of municipalities

Question: Low (high) quality refers to the third of municipalities reporting the lowest (highest) average score across infrastructure sectors (weighted by the importance of the sector in terms of subnational gross fixed capital formation) in response to the following question: How would you assess the quality of infrastructure in each of these areas in your municipality on a scale of 1 to 5, where 1 means it is completely outdated and 5 means it is up to latest international standards? Source: EIB Municipality Survey, Eurostat.









Financing of infrastructure – importance of EU programmes

Rural Metropolitan 100 90 80 70 60 50 40 30 20 10 0 Other Transfers EU programmes Own resources External Finance

in % of total financing

Question: Can you tell me approximately what proportion of your infrastructure investment activities in [..] were financed by each of the following...? Source: EIB Municipality Survey, Eurostat.









Major obstacles to infrastructure investment

share of municipalities, in %



Question: To what extent is each of the following an obstacle to the implementation of your infrastructure investment activities? Is a major obstacle, a minor obstacle or not an obstacle at all? (1) Balance between revenues and operating expenditure; (2) Limit on amount of debt the municipality can borrow; (3) Access to external finance; (4) Technical capacity to plan and implement; (5) Co-ordination between regional and national policy priorities; (6) regulatory process: length to approve; (7) Political and regulatory stability. Source: EIB Municipality Survey, Eurostat.

















- Investment barriers;
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- Investment gaps;

Key messages

- **Rural municipalities** more frequently report
- (Unholy) Trinity of low quality infrastructure, financing and capacity constraints, and drop in investment.

iv. While less frequent use of technical assessments & planning.

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Infrastructure investment remains at 75% of pre-crisis level, chiefly due to drop in public capital expenditure;









Policy response should assess quality of existing stock and additional needs; complement technical capacity; ensure adequate quality of stock and implement new projects.

- **Effective use of funds** requires:
- Project prioritisation, with selection based on sound principals Ι. and strategic grounds;
- Careful project preparation, specification and implementation; İİ.
- Appropriate monitoring. Ш.

Key messages













Annex













1. Macrofinancial factors



With smaller fiscal space, social spending crowds out infrastructure investment In real terms, Index 2001=100 200 180 160 140 120 100 80 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 Social protection (subnational) Investment in infrastructure (subnational, proxy) Debt (general government)

Spending on social protection deflated by the GDP deflator. Infrastructure investment refers to gross fixed capital formation in other buildings and structures for economic affairs, health, education and environment by local and state governments; deflated by GFCF deflator. Debt is expressed in per cent of GDP Source: Eurostat; EIB calculations.







1. Macrofinancial factors



b. Change in subnational investment share by fiscal autonomy

Sub-national level affected by drop in public capital expenditure

a. Change in subnational investment share (in %)



Source: Eurostat, Projectware, EPEC (for infrastructure investment) and Eurostat for subnational government investment in infrastructure sectors. Fiscal autonomy data comes from Hooghe et al. (2018).



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2. Local context matters



Infrastructure quality varies substantially over geography



Infrastructure quality dispersion within countries



Source: EIB Municipalities Survey 2017.







Rural Municipalities characterized by lower population density and GDP per capita



Population density



GDP per capita

per square kilometre

Source: EIB Municipalities Survey, Eurostat.









financial instruments capacity building Farming EU guidance added technical support co-financing value seminars governance intermediaries intermediaries leverage case studies Agriculture thematic objectives Targeted coaching business plan equity advisory private investors services life cycle **RDP** guarantees combination of support revolving conferences banks fund of funds loans microfinance managing authorities factsheets **EIB** Group DG AGRI Agricultural products strategy



