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EKU SAGLABAŠANAS UN
ENERGOTAUPTĪBAS BIROJS

LATVIA'S UNTAPPED POTENTIAL: ENERGY EFFICIENCY IN THE BUILDING SECTOR

Housing and Energy Conservation Bureau

F3

5/4/2017

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LITTLE HAS CHANGED SINCE THE END OF THE
SOVIET UNION

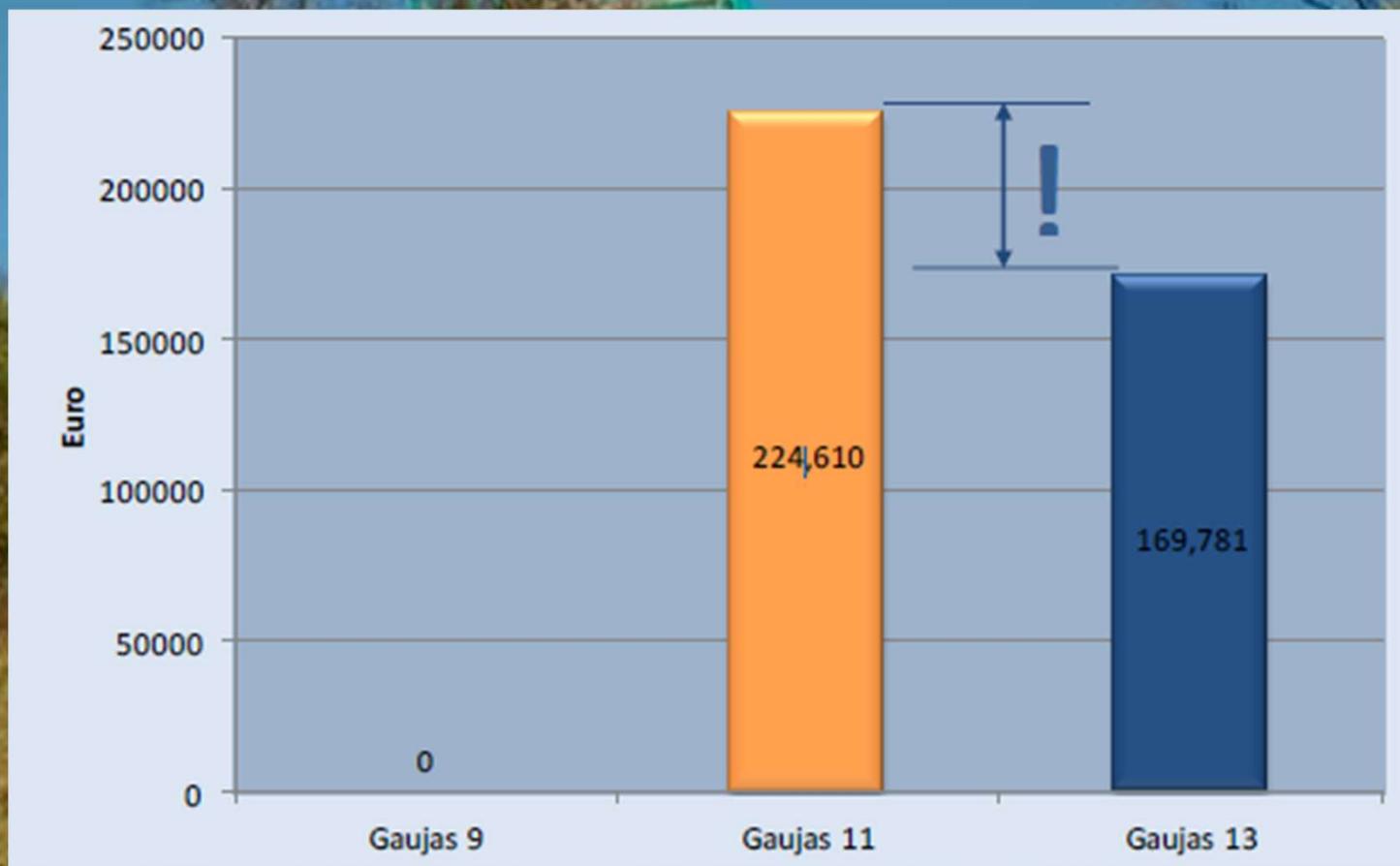
**“All our salaries and
pensions are burning up
in [...] heating ...”**

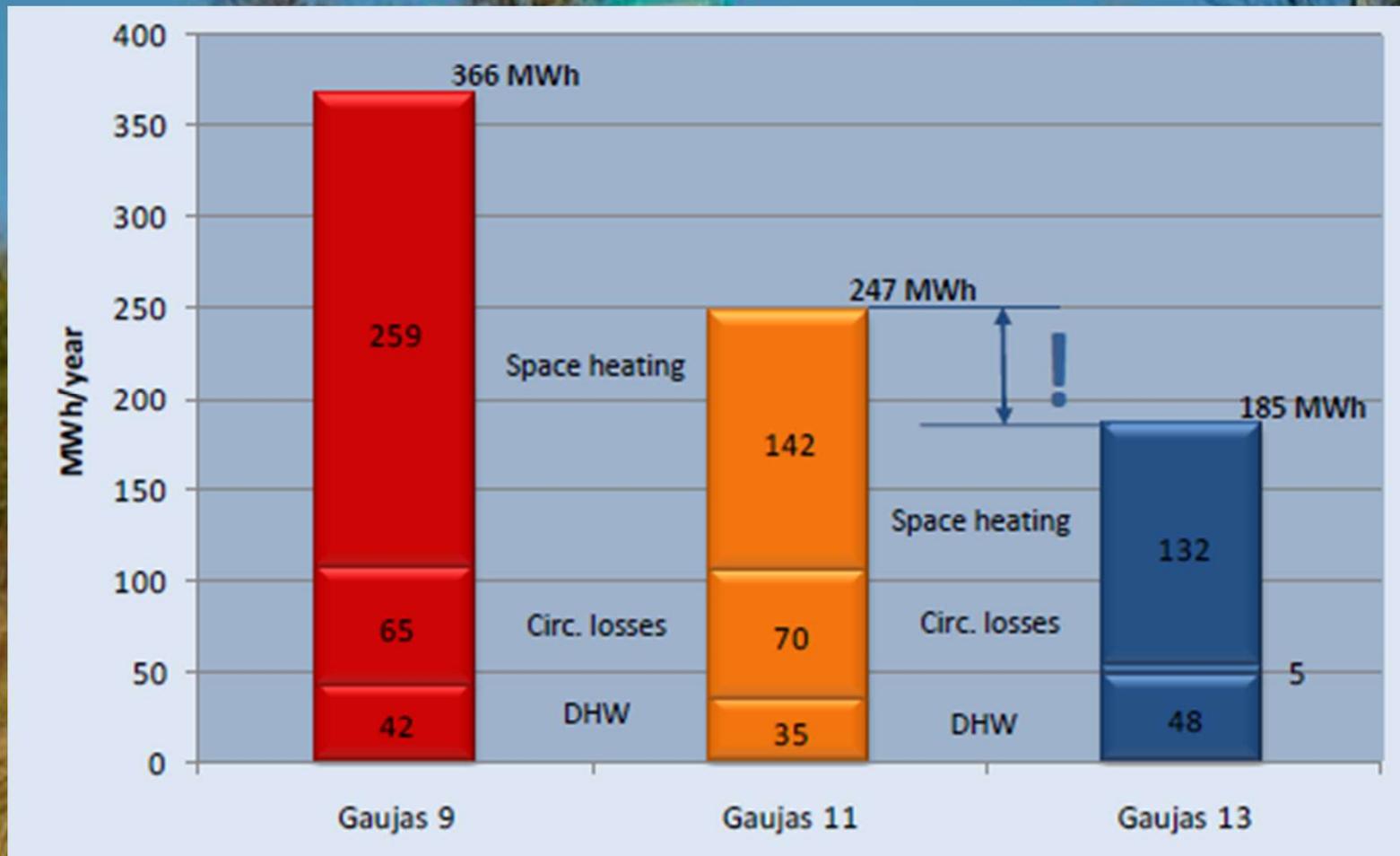
**First Deputy Premier of the Russian Federation Boris Nemtsov, as
quoted by the Los Angeles Times, March 1997**

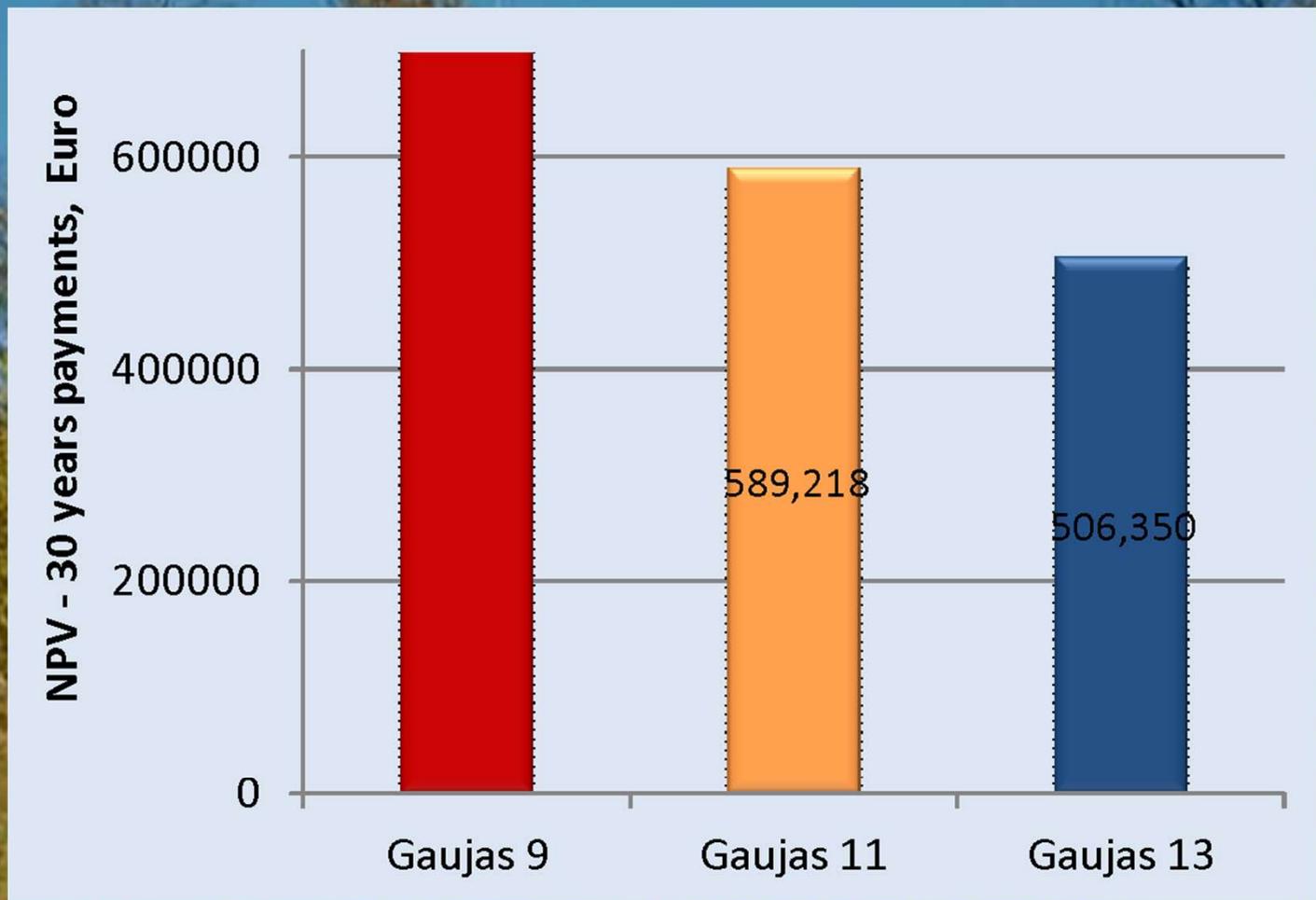
HOW TO ADDRESS THIS FAILURE?

- **The micro an example of three buildings**
- **The macro: what happens if we set a goal of 70% deep renovations**
 - Assumptions
 - How do we tackle it?
 - What does it cost?
 - What are the savings?
 - What does it do to our balance of payments?
- **The Cascade of Benefits of working together –!**
- **And that's why LABEEF and the SHAREX platform**

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- 1977-1980,
 - Series 467th standard design nine floors
 - total area ~ 2165 m²,
 - heated 1860 m²,
 - 36 apartments.







AND WHAT WOULD HAPPEN ON A MACRO BASIS?

Assumptions:

50% savings at building level though findings >60%

Passive solutions only at buildings only – current capacity

Incremental investments in networks and buildings will increase.

Further decreases will be due to:

scalability=the sharex.lv stakeholder platform

technology and industrialisation

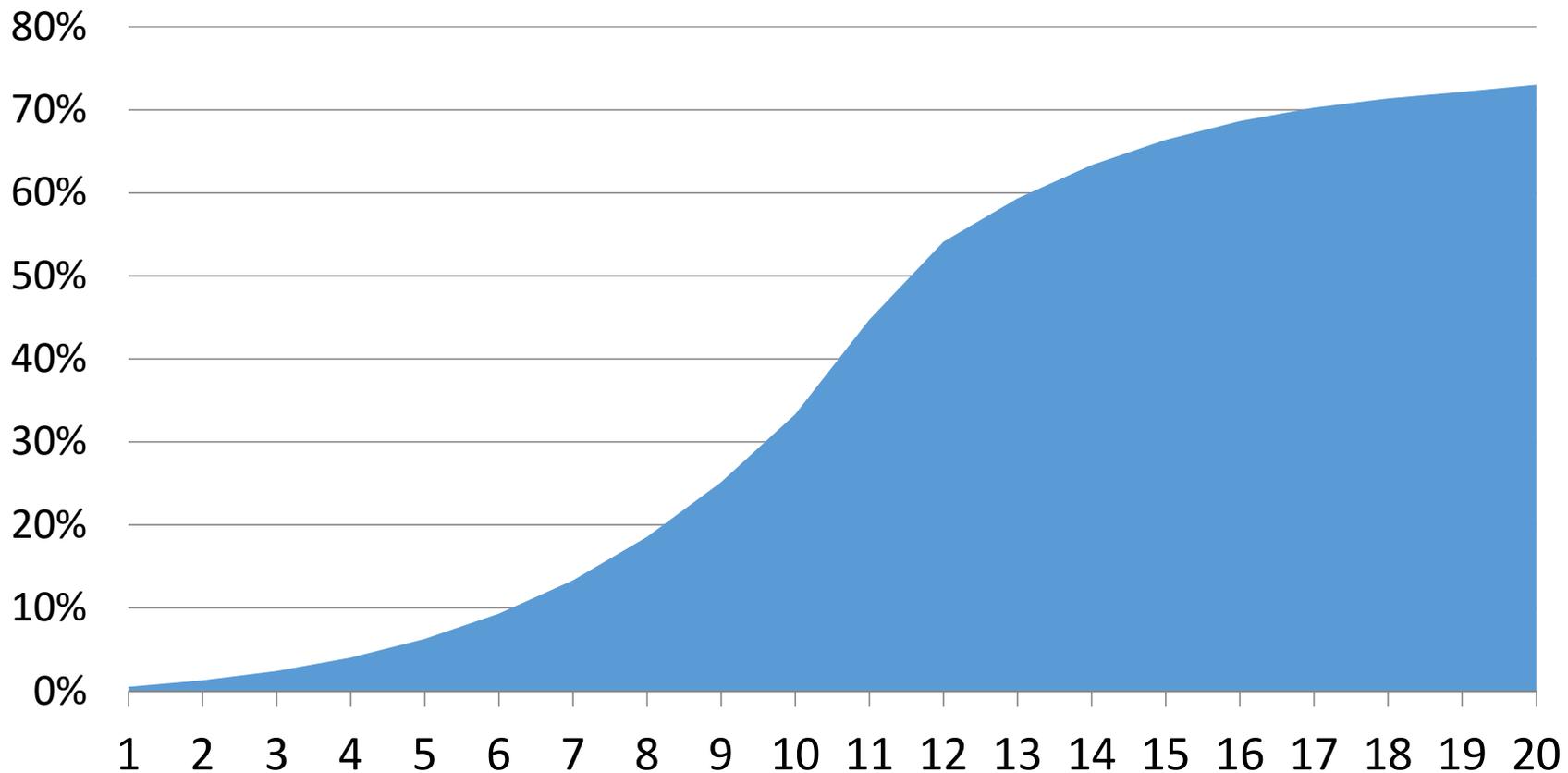
grouped purchasing

decreased transaction costs

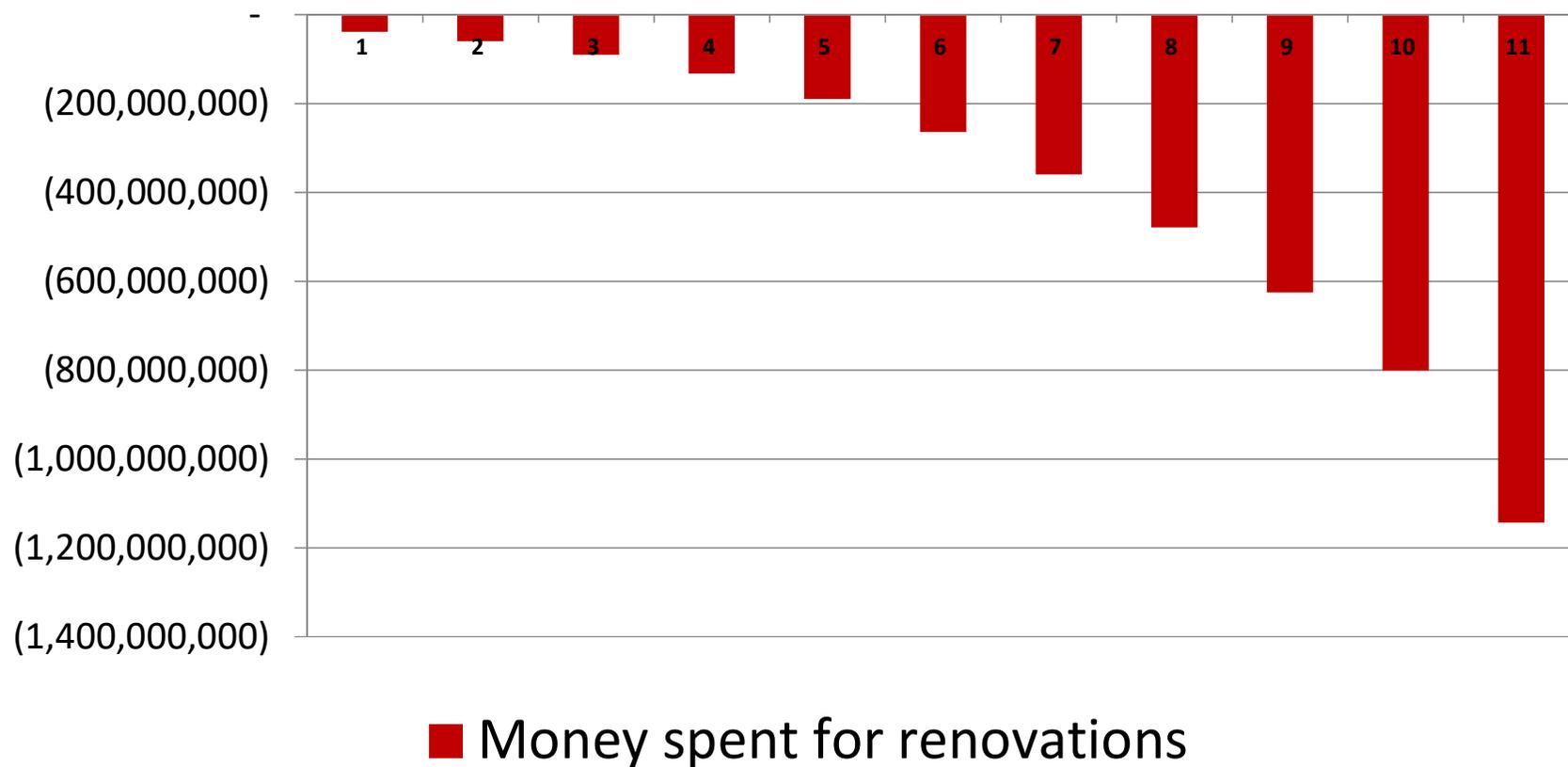
lower financial costs

What if we did this for 70% of the buildings?

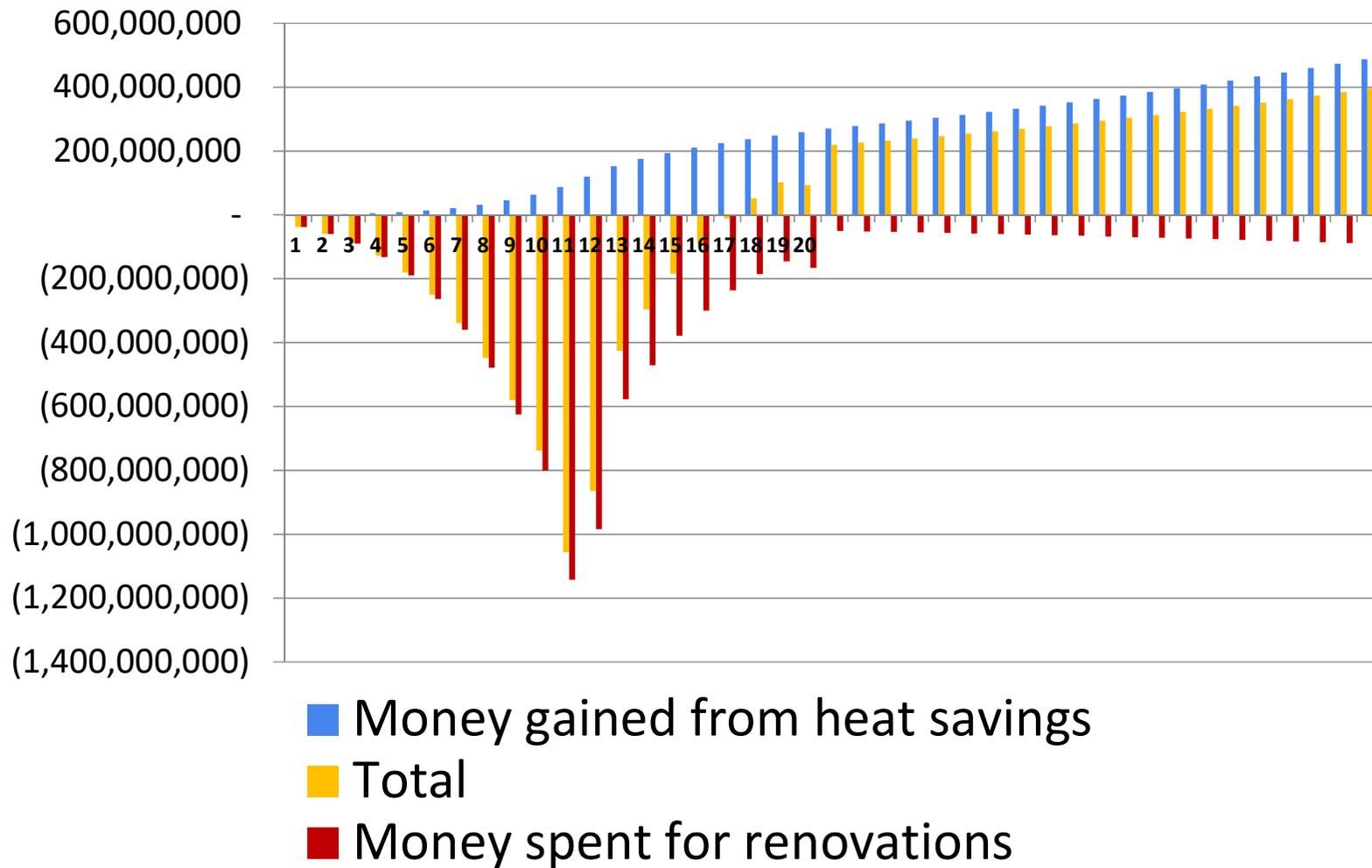
Complete 70 percent of the buildings over 20 years



What if we did this for 70% of the buildings?



What if we did this for 70% of the buildings?



WORKING TOGETHER – THE CASCADE OF STAKEHOLDER BENEFITS

Citizens and stakeholders:

- **Solving the housing crisis: 4 guarantees for 15-20 years : heat reduction , comfort, quality and microclimate**
- **Building lifetime extended by 30-50 years**
- **Property values rise**
- **Lower liabilities**

Project promoters / builders :

- **continuous work flow for the next 20 years**
- **Skilled Workforce**
- **Knowledge and models for export**



WORKING TOGETHER – THE CASCADE OF STAKEHOLDER BENEFITS

Municipalities :

- **Well-organized , attractive and safe urban environment**
- **jobs = > return people who have moved**
- **additional taxes**

Country:

- **Pensions funds stay at home**
- **people who have moved return**
- **energy security**
- **economic development**
- **knowledge and models for export**
- **Reduction of CO2 emissions**



GOALS OF LABEEF –

- **Over 20 years: Finance renovation of 20% of MFB**
 - Achieve energy consumption ≤ 90 kWh/m² per building;
 - Ensure safe, healthy, affordable and comfortable **homes** for next 30–50 years;
- **2018: Deliver sharex.lv for benchmarking projects**
- **2022 Prepare to be subsidy free;**
- **2022: Credit rating: Moody's, S&P, Fitch**
- **2025 Attract 100% private funding**

