



# The Berlin Science Parks – Drivers of regional growth

International Colloquium on Science Parks  
Berlin-Adlershof  
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## Success Stories

- One of the most successful centres for high-technology in Europe, the **Berlin Adlershof Science and Technology Park** is a prime example of the marriage of enterprise with science and research. The levels of value added achieved in this part of the complex exceed the average achieved by the companies in Adlershof.
- The **Berlin-Buch biomedical campus** was established in 1992 with the founding of the Max-Delbrück Centre for Molecular Medicine (MDC). Since those early days, the Buch research campus has become a centre for science and enterprise where fundamental molecular-biological research and clinical research are conducted side by side.

## Major Economic Impact

- The facilities in both of these highly successful science parks in Berlin not only generate new knowledge, but also **directly contribute value added** in Berlin.
- They also give rise to a number of **indirect effects** as the revenue generated by the direct effects is rolled back into the economy or as demand for local supplies increases.
- The magnitude of the effects of this additional value added can be calculated by means of “**BEST**”.

## Berlin Economic Simulation Tool - BEST

- **BEST** is a macroeconomic simulation model for Berlin that assesses economic measures and structural financial changes.
- **BEST** can also be used to simulate sectoral effects and implement technology parameters.
- **BEST** can simulate the impact of economic intervention for a follow-up period of five years.

## BEST Data Situation

- Factors unique to **Berlin**:
  - Short time series due to the massive structural upheaval in 1989.
  - Data from the period prior to reunification is unusable.
  - The additional “shock” of the relocation of government.
  - Major revisal of macroeconomic accounting.

## BEST - Calculating Scenarios

- **FIRSTLY**, a **reference scenario** is calculated.
  - The reference scenario reflects business-as-usual trends in Berlin's economy for five years without Adlershof and Buch.
- **SECONDLY**, a **simulation scenario** is defined and calculated.
  - The simulation scenario reflects the economic development of Berlin with the Adlershof and Buch science parks.

## BEST – Interpreting the Simulation Results

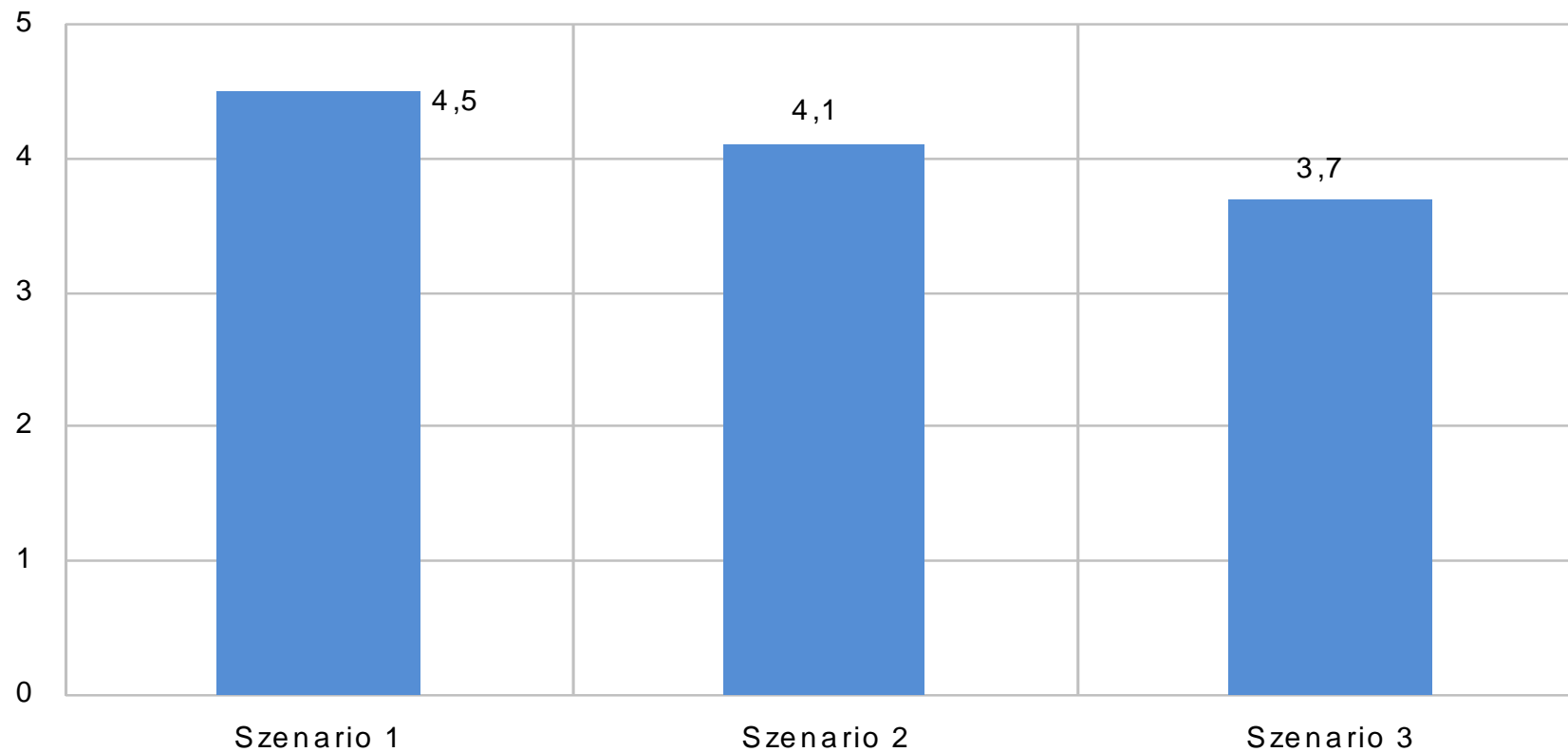
- In each case, the results are obtained by comparing the calculated (user-defined) simulation scenario with the reference scenario.
- This means that all simulation results must be interpreted as the difference between the newly defined scenario and the reference scenario.

## BEST - Simulations for Adlershof and Buch

- **Three** possible scenarios are presented:
  - Scenario 1: Impact with **strongly expanding** development
  - Scenario 2: Impact with **expanding** development
  - Scenario 3: Impact with **stagnating** development

# Simulation (I): Effects on Economic Performance: Adlershof

Additional economic performance in Berlin in billions of EUR  
Total from 2009 to 2013

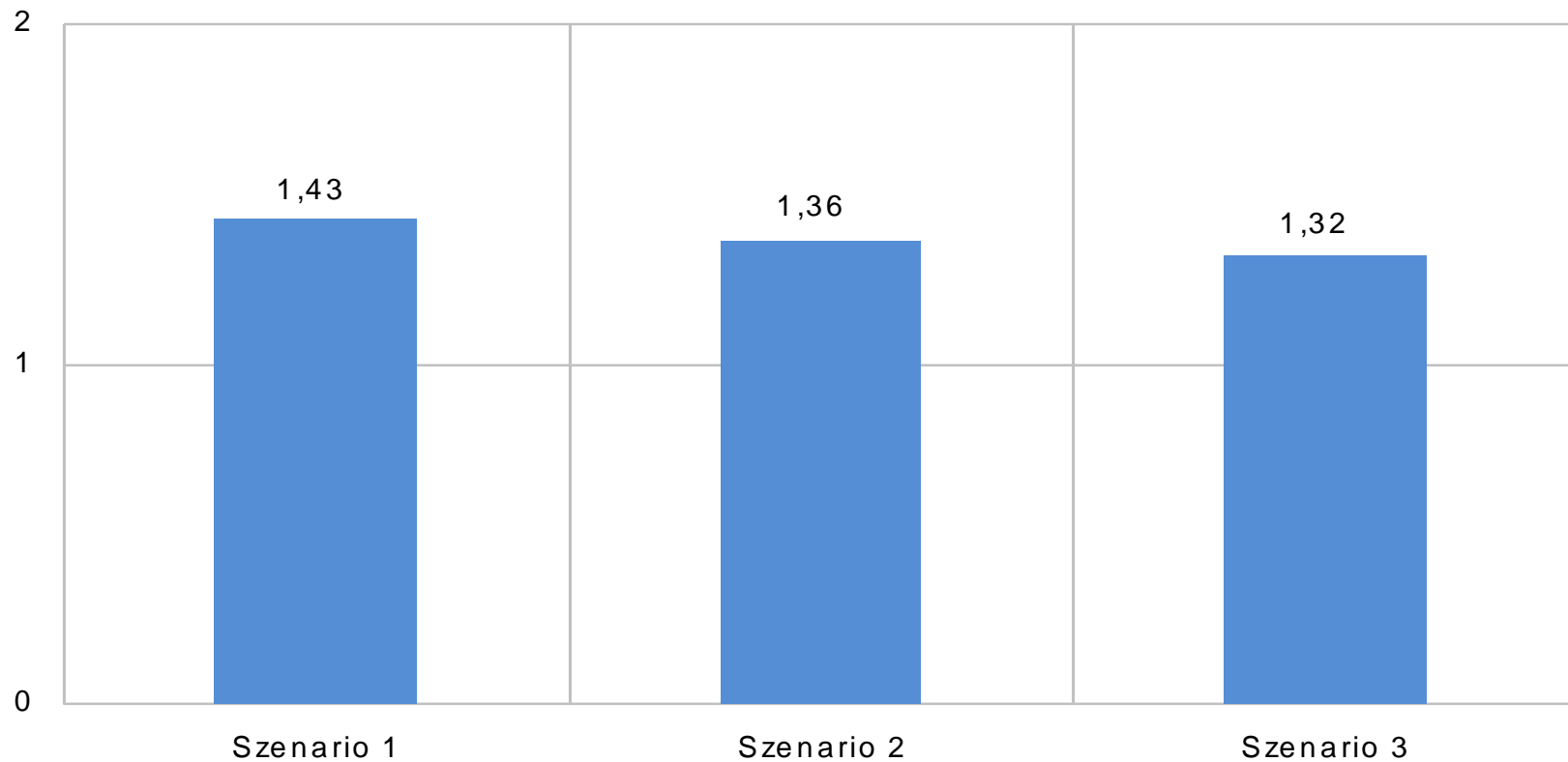


Quelle: Own BEST calculations

14.8.2009

# Simulation (I): Effects on Economic Performance: Buch

Additional economic performance in Berlin in billions of EUR  
Total from 2009 to 2013

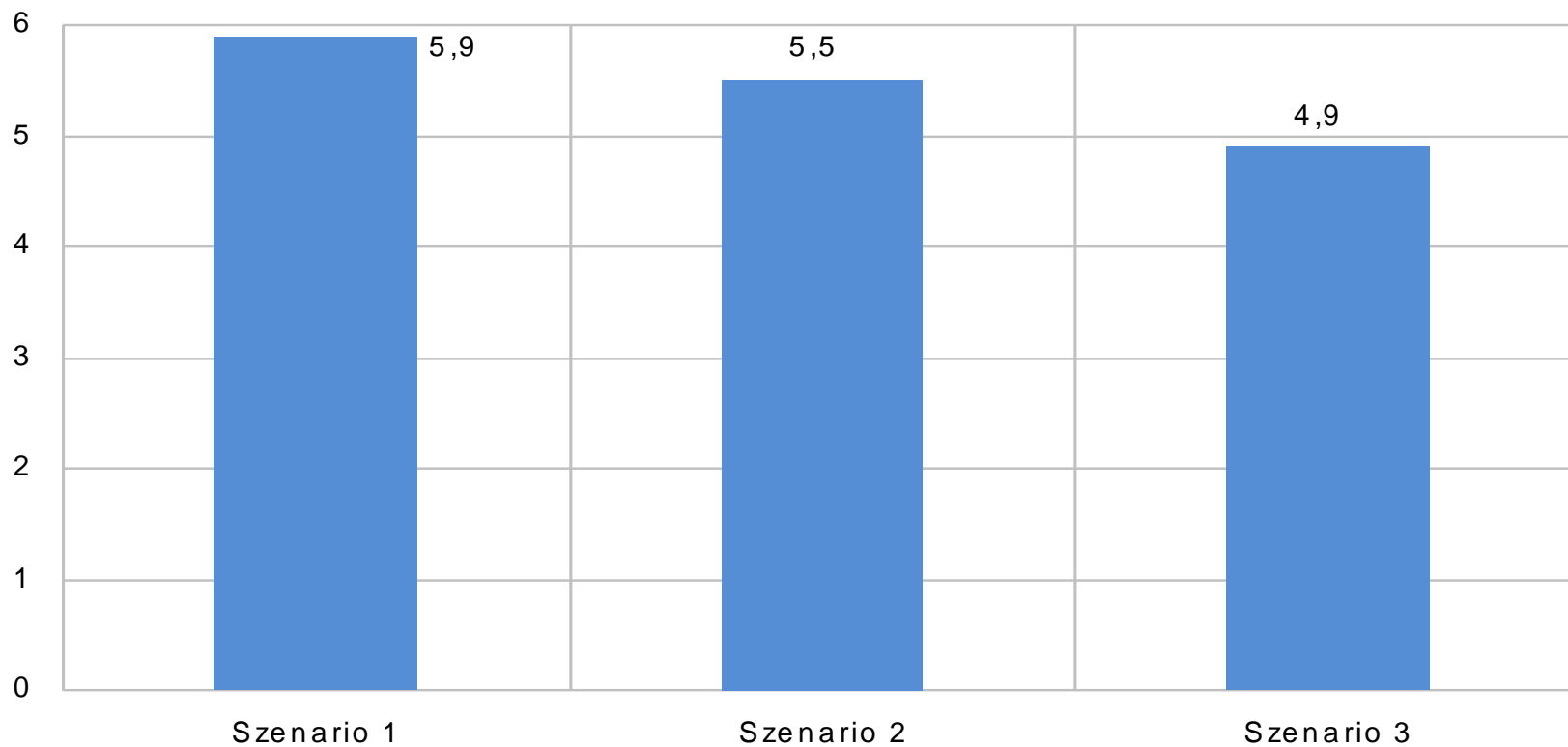


Quelle: Own BEST calculations

14.8.2009

# Simulation (I): Effects on Economic Performance: Adlershof and Buch

Additional economic performance in Berlin in billions of EUR  
Total from 2009 to 2013



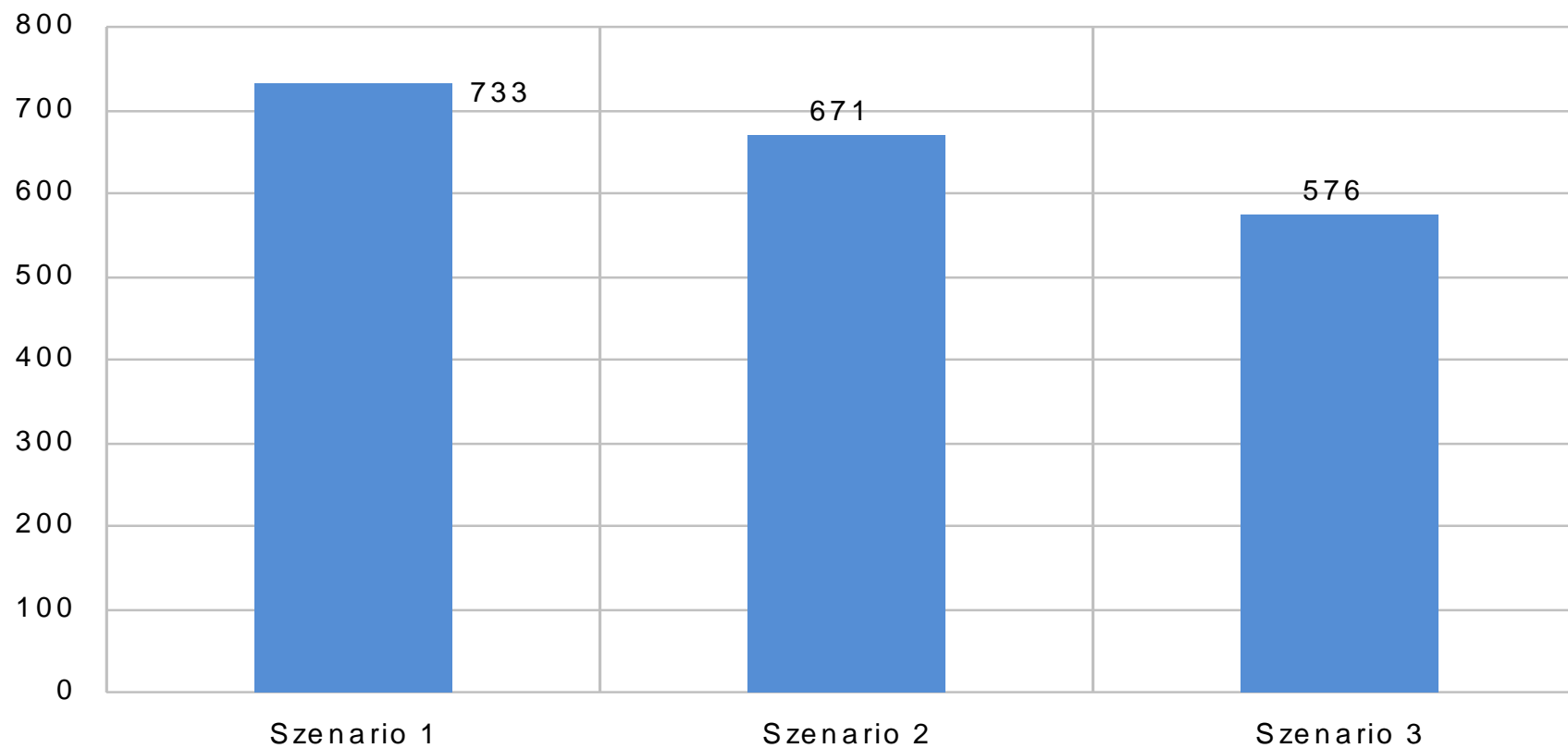
Quelle: Own BEST calculations

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## Simulation (II): Effects on Revenue: Adlershof

### Additional revenue for Berlin in millions of EUR

Total from 2009 to 2013



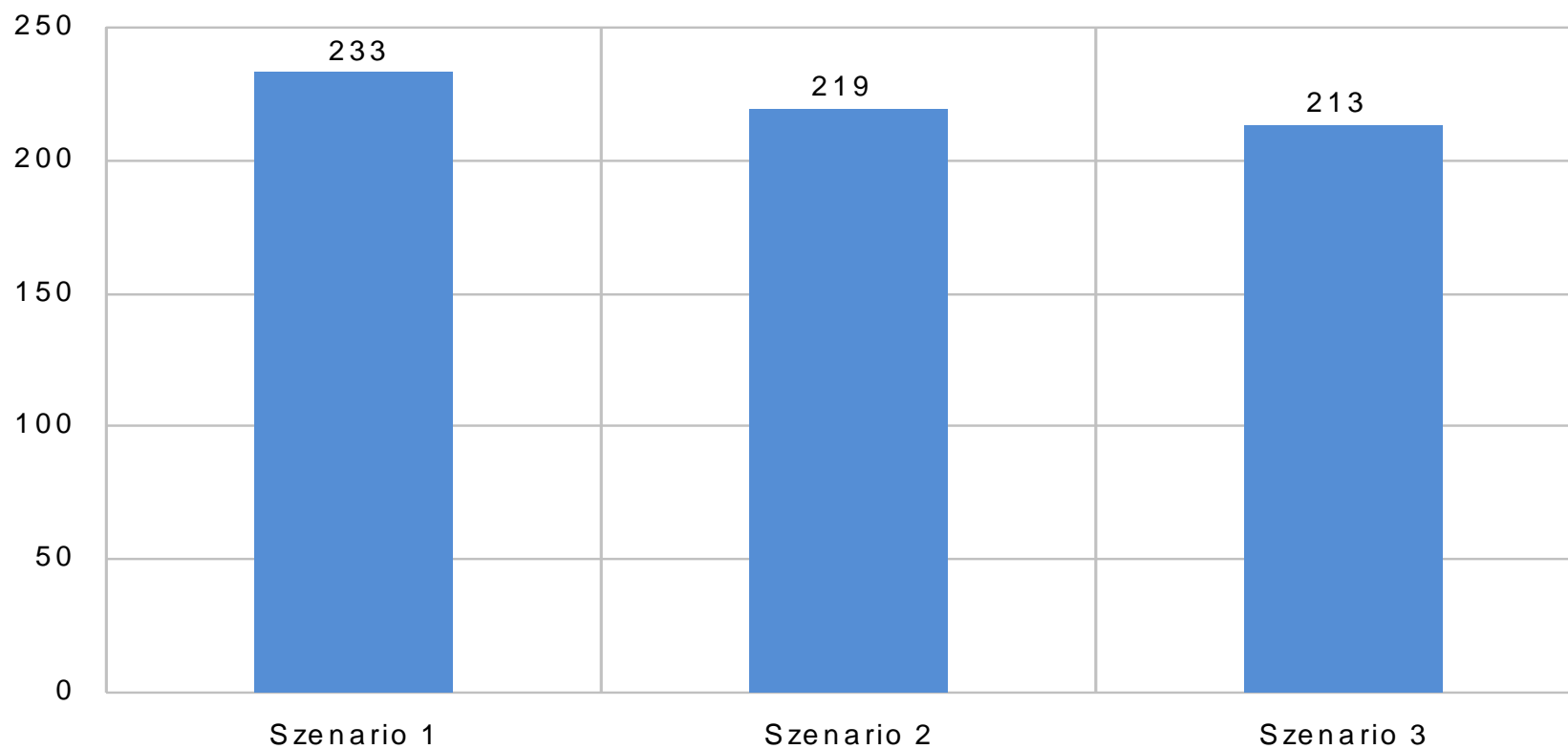
Quelle: Own BEST calculations

Szenario 3  
14.8.2009

## Simulation (II): Effects on Revenue: Buch

Additional revenue for Berlin in millions of EUR

Total from 2009 to 2013



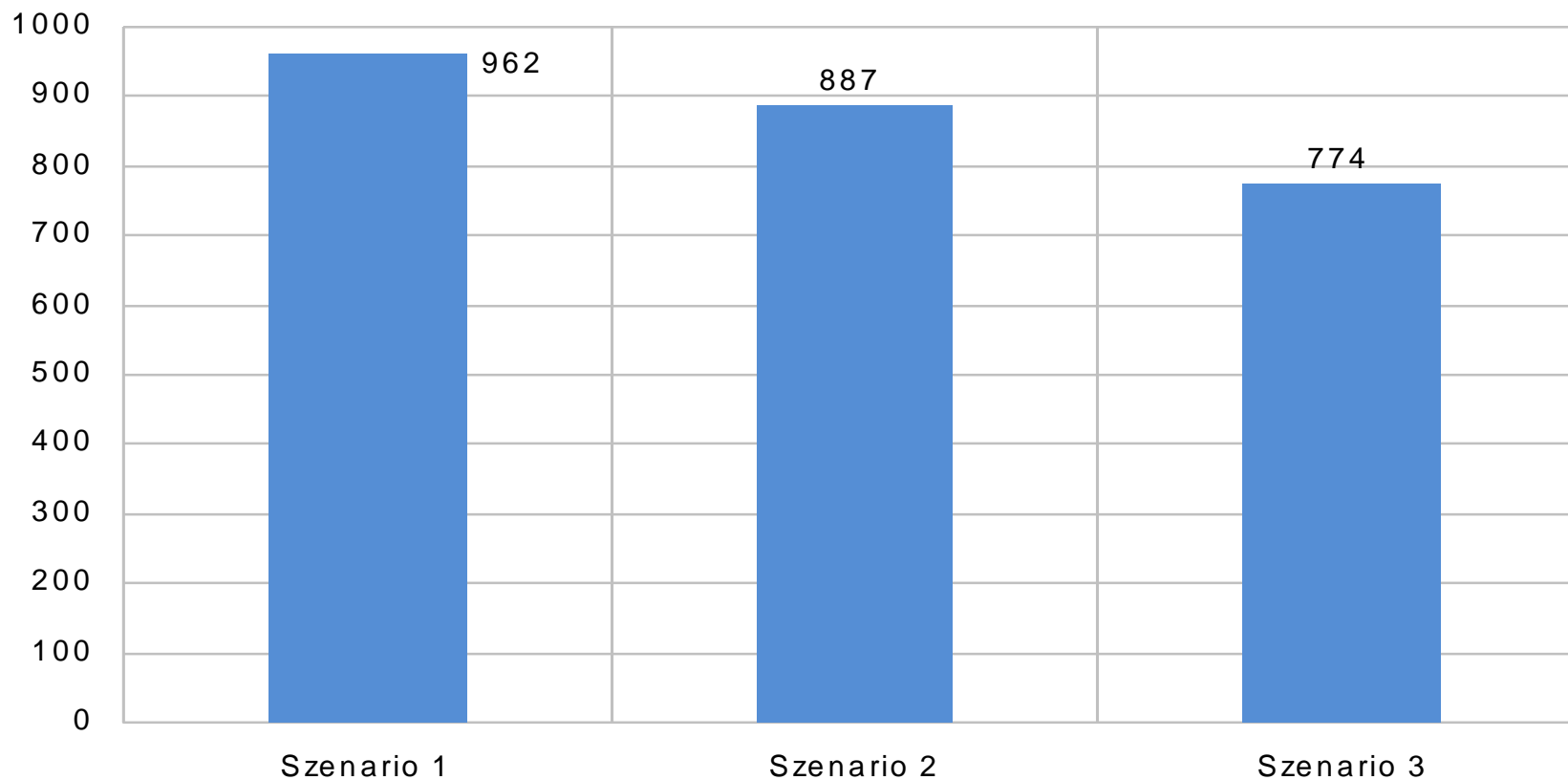
Quelle: Own BEST calculations

Szenario 3  
14.8.2009

## Simulation (II): Effects on Revenue: Adlershof and Buch

### Additional revenue for Berlin in millions of EUR

Total from 2009 to 2013



Quelle: Own BEST calculations

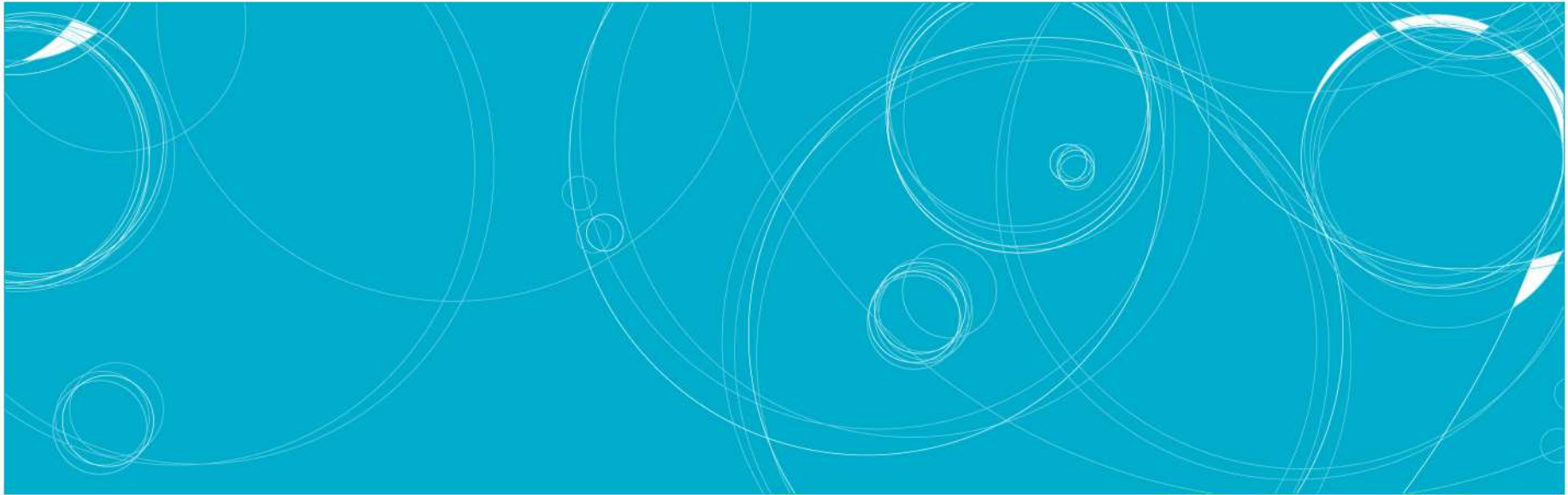
Szenario 3  
14.8.2009

## BEST – SUMMARY (I)

- Depending on the specific scenario, the **Adlershof science and technology park** and **Berlin-Buch biomedical campus** will together boost economic performance in Berlin by an additional EUR 4.9 to 5.9 billion by 2013 (at an average rate of EUR 0.94 billion to EUR 1.06 billion per year).
- Even if some positions are not profitable from an economic point of view, their total **macroeconomic effects** are nonetheless considerable.
- In addition to the economic effects measurable in euros, the science parks also deliver non-monetary benefits by **generating knowledge and increasing reputation**.

## BEST – SUMMARY (II)

- The science parks also benefit **Berlin's budget**. By 2013, Berlin's public revenue will increase by a total of around EUR 774 million to EUR 962 million (at an average rate of EUR 155 million to EUR 192 million per year).
- This will greatly exceed the **state subsidies** provided for the science parks. Every EUR 1 provided in subsidy returns between EUR 1.30 and EUR 1.70.
- The BEST calculations show that science parks not only represent a successful marriage of enterprise with science and research, but are also of **enormous economic benefit to Berlin**, both today and in the future.



**Thank you for your attention!**