

Efficiency in English and Welsh Universities: A Stochastic Frontier Analysis

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Plan of Presentation

- Overview
- Research Output
- Results
 - Business Choice
 - Components of Efficiency
 - Levels of Efficiency
- Reflections
- Conclusions

Overview

- Data used
- Further Measure of Research
- Levels of Efficiency
- Determinants of Efficiency

Research Output

- Problems
- Boone (2008)
- What have I done?
- Did it work?

Gross and Net Model

- Two approaches as in Coelli et al (1990a)
- Hybrid model

Business Choices

Increased Costs

- Increasing Outputs
- Increasing wages
- Russell Group membership
- Law course offering
- Prop of $>2:1$
- Prop of Female Staff
- Prop of Part time Staff

Decreased Costs

- Wales situation
- Prop of Non-EU Students
- Prop of Academic Staff
- Prop of Female Students

Efficiency Effects

Increased Efficiency

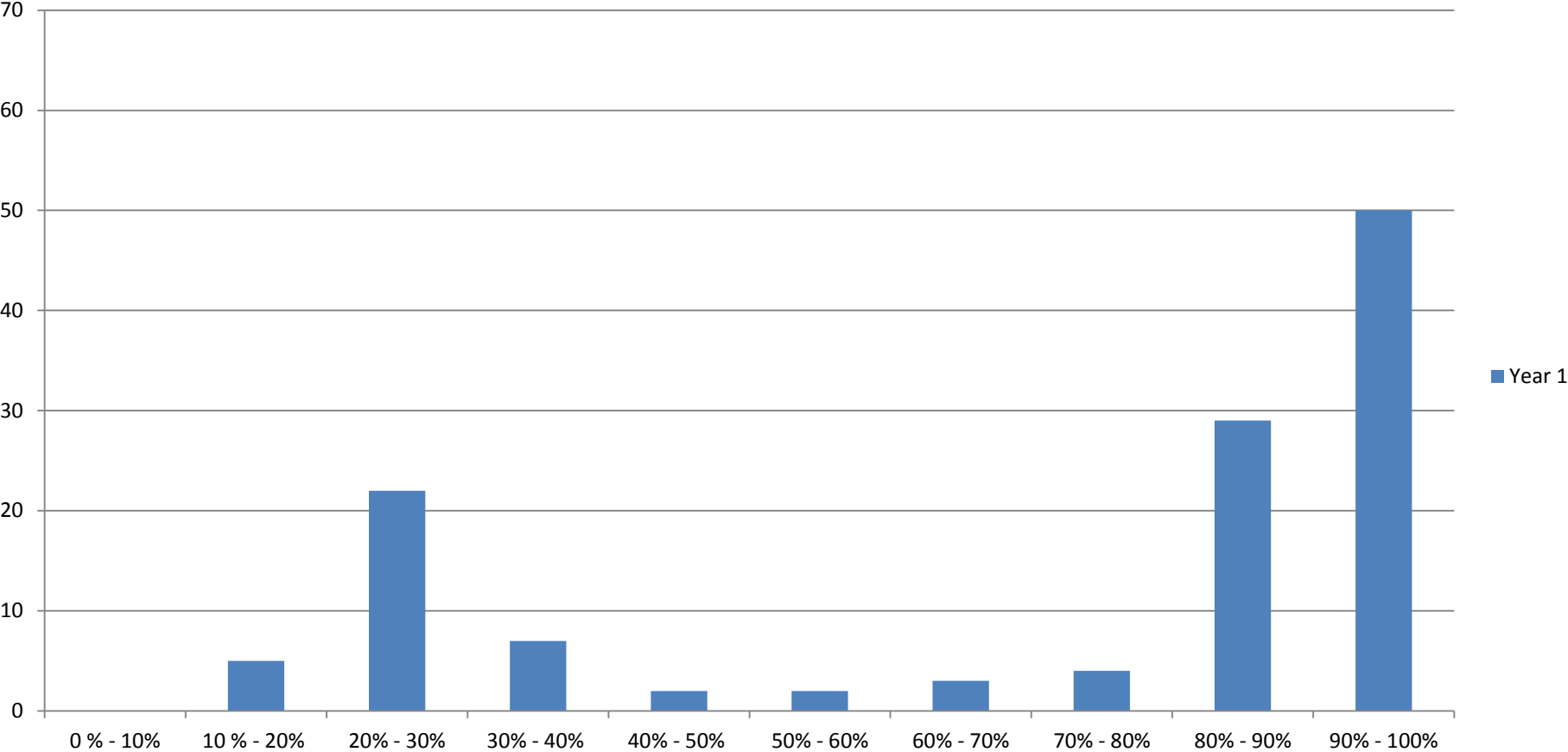
- Russell Group Membership
- Law course offering
- Prop of Female Staff

Decreased Efficiency

- Prop of Non-EU Students
- Prop of Academic Staff
- Prop of Female Students
- Prop of Science Students
- Prop of Part time Staff

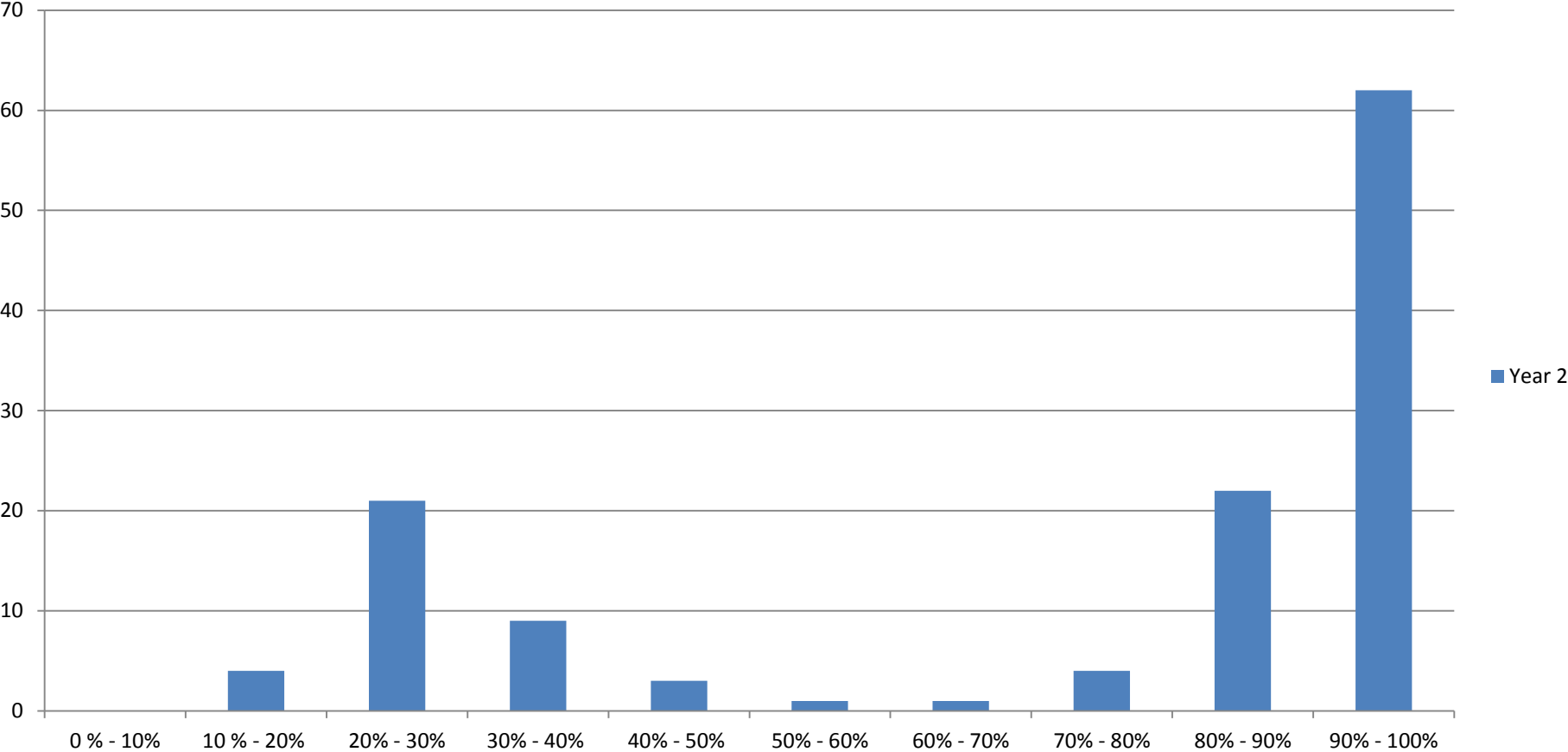
Efficiency Scores – Year 1

Year 1



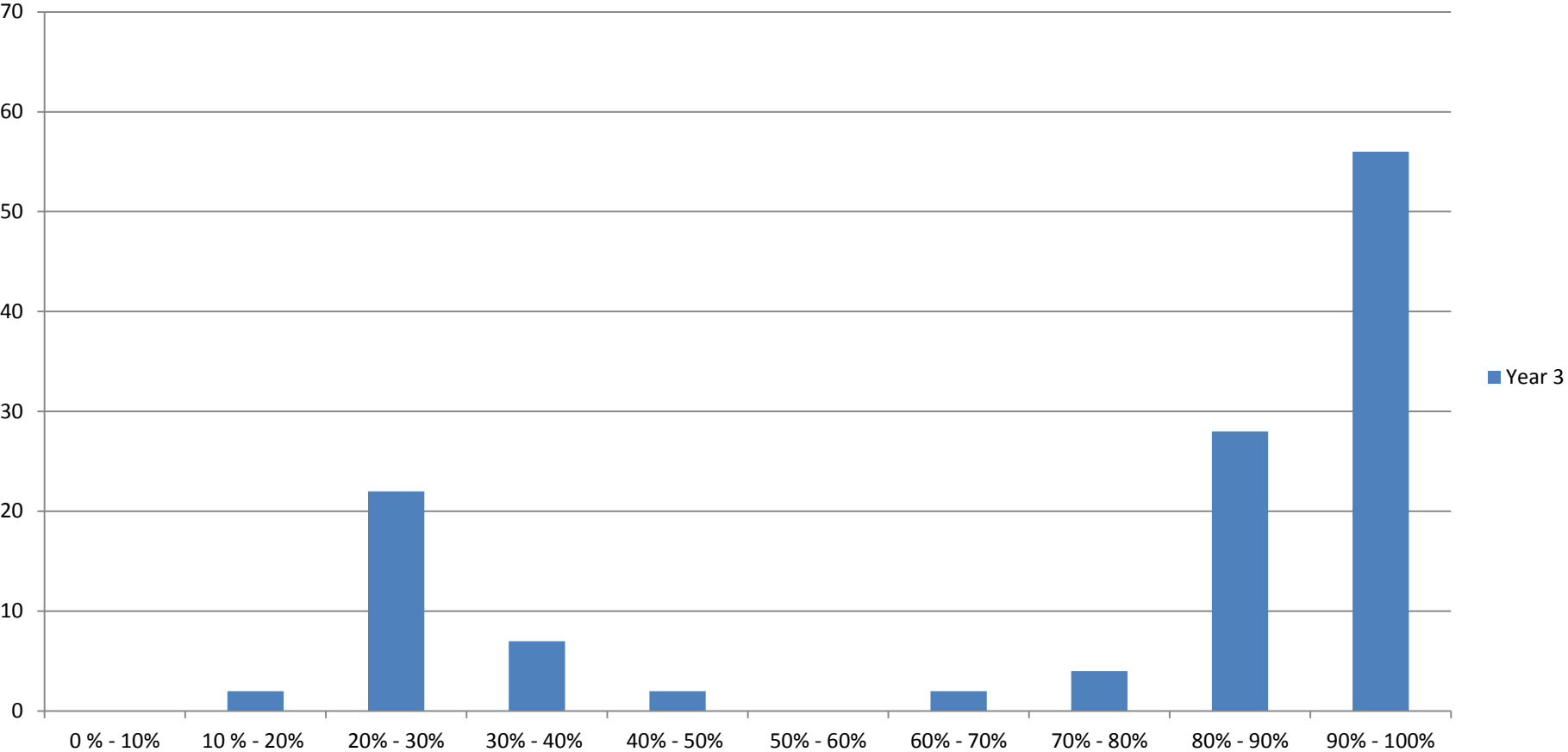
Efficiency Scores – Year 2

Year 2



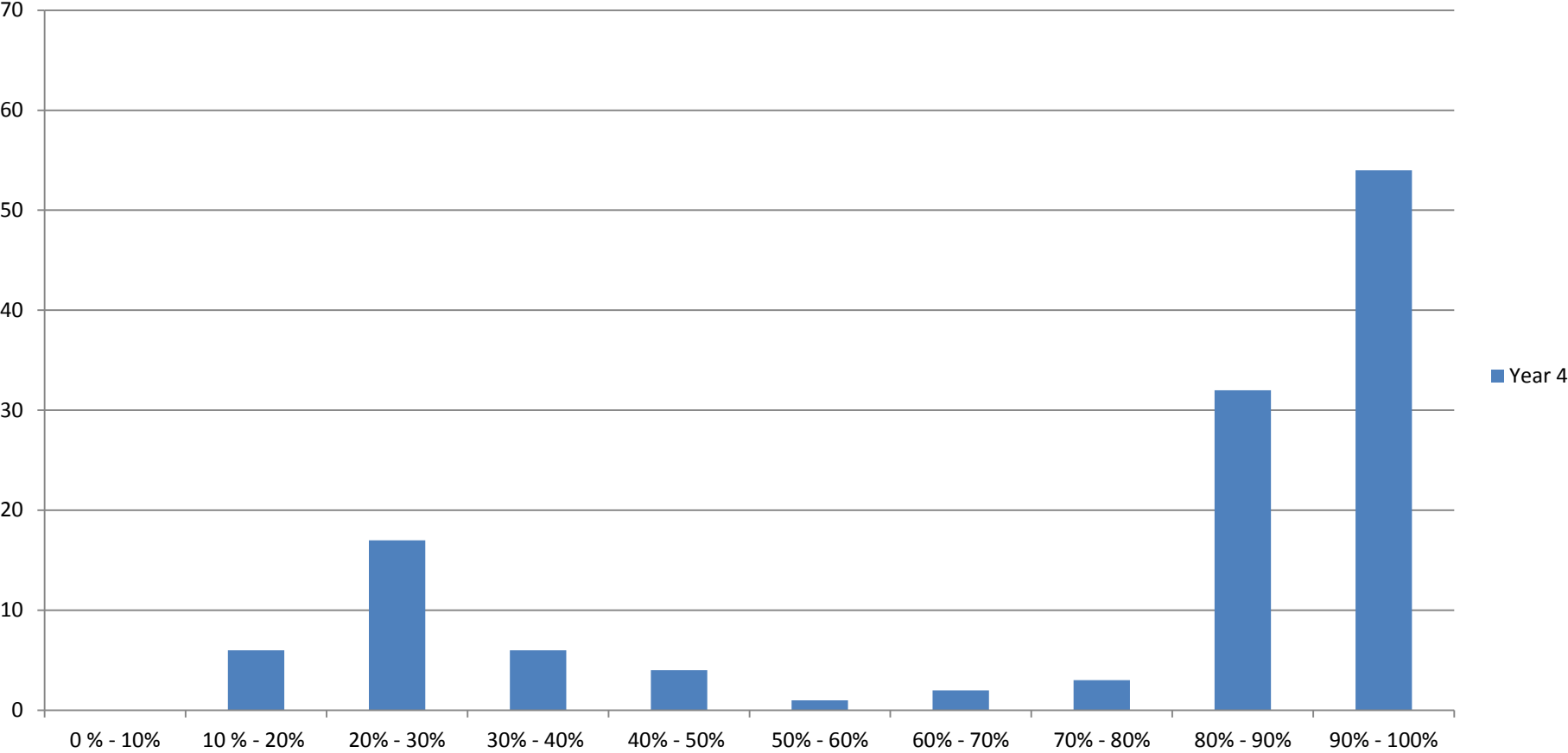
Efficiency Scores – Year 3 (Tuition Fees)

Year 3



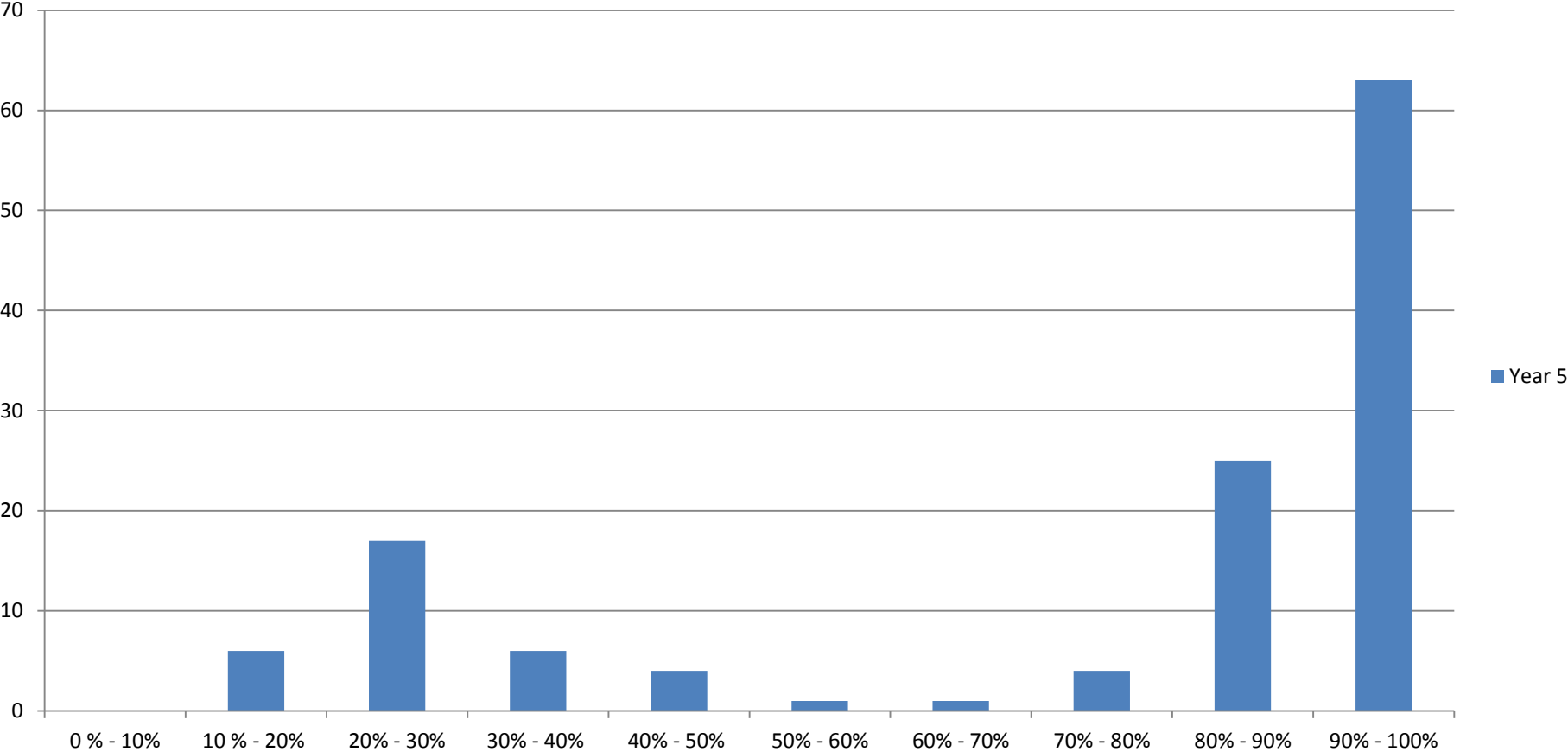
Efficiency Scores – Year 4

Year 4

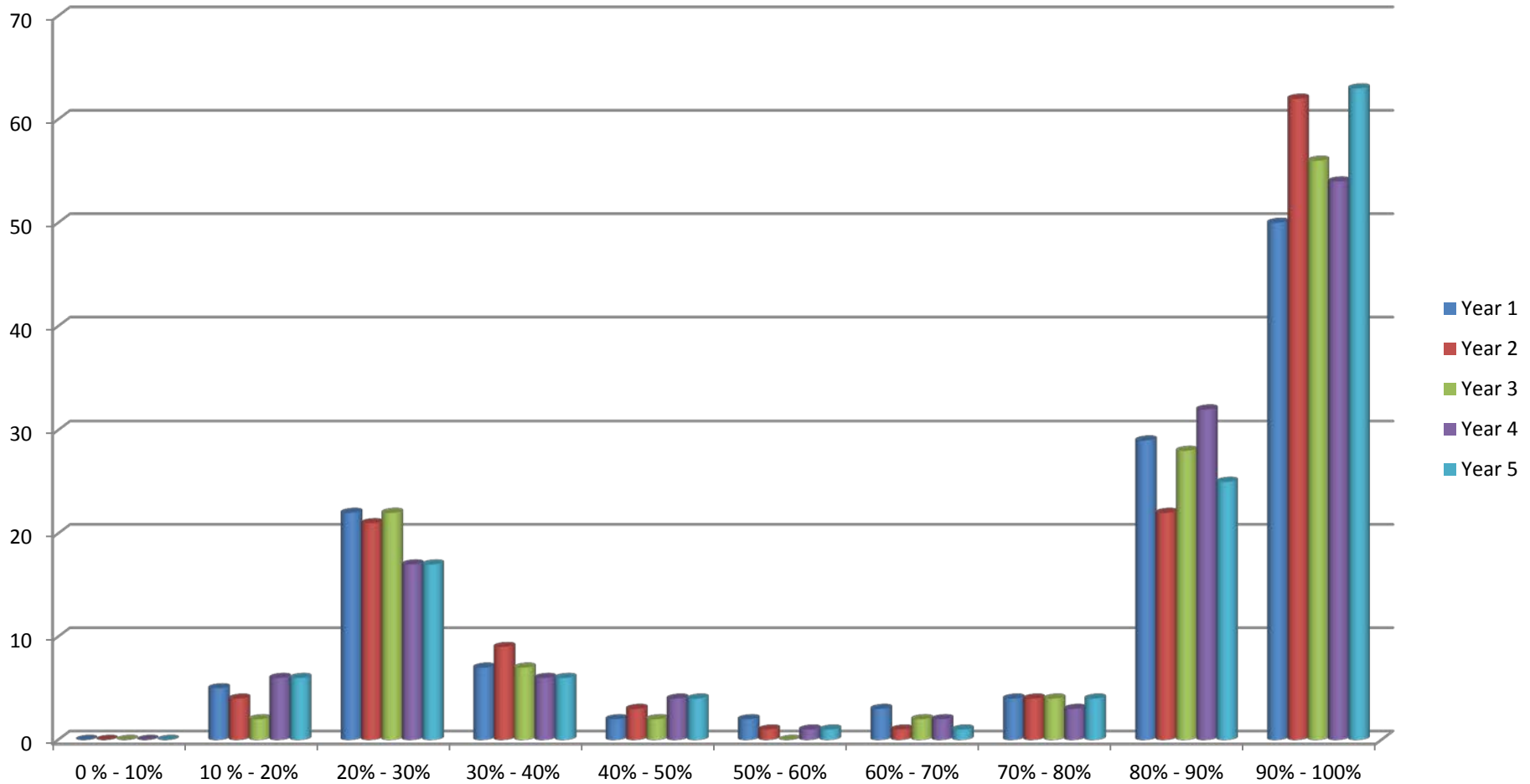


Efficiency Scores – Year 5

Year 5



Efficiency Scores – Years 1 to 5



Individual Results

- Warwick (95.8%)
 - Cost [£137,452], Stud [29,795], Res [1993]
- The University of York (23.6%)
 - Cost [£83,430], Stud [12,625], Res [1285]

Individual Results

- Bolton (96.9%)
 - Cost [£26,933], Stud [8,740], Res [64]
- Aston (23.8%)
 - Cost [£53,668], Stud [9,555], Res [246]

Reflections

- The 20% Hump
- Good news
- Age of Data / Data Age
- Future Work

Summary

- Research Output
- Overall efficiency factors
- Particular efficiency comparisons