Make-Or-Buy Document

This document contains make-or-buy analysis for Hydrome proposal.
The external service found is Microsoft Azure SQL. A brief description can be found in Vendor Analysis Document.

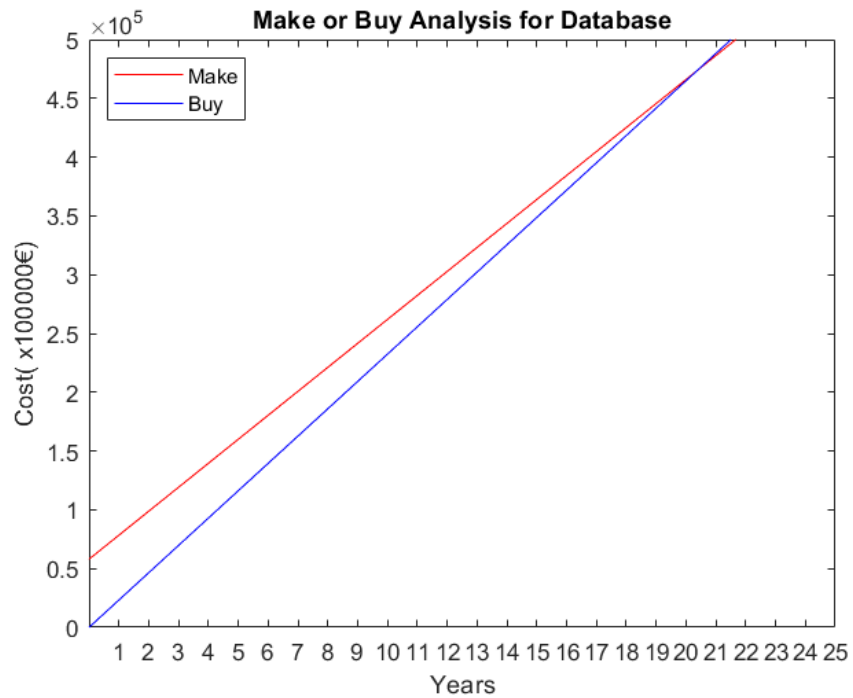| SERVICE	MONTHLY COST (€)	YEARLY COST (€)
Microsoft Azure SQL	1937,28	23247,36

Database

The following table contains costs related to a handmade version of the database.

COMPONENT	COST (€) per SINGLE COMPONENT
Rack	1000
Server (x3)	5000
Firewall	2000
Setup	1000
Security Integration	10000
Backup	2
Total Implementation Cost	58000
Annual Energy Cost	10000
Annual Maintenance Cost	3000
Annual Security Maintenance	5000
Annual Licenses Cost	2400

The following table contains the comparison between make and buy options.

YEAR	AZURE SQL	HANDMADE
1	23427,36	78400
2	46854,27	98800
3	70282,08	119200
4	93709,44	139600
5	117136,80	160000
6	140564,16	180400
7	163991,52	200800
8	187418,88	221200
9	210846,24	241600
10	234273,60	262000
11	257700,96	282400
12	281128,32	302800
13	304555,68	323200
14	327983,04	343600
15	351410.40	364000
16	374837,76	384400
17	398265,12	404800
18	421692,48	425200
19	445119.84	445600
20	468547,20	466000

Equivalently, this is a graphical representation of the previous data.

Conclusion

As highlighted in the previous analysis, the best choice for our company is represented by the buy option. Make or Buy reach a breakeven point only after 20 years.