

Company R&D Report

1) SCIENTIFIC POTENTIAL

Degree distribution (canonical):

- dsc: 5
- phd: 5
- master: 5
- bachelor: 3
- none: 3
- other: 0

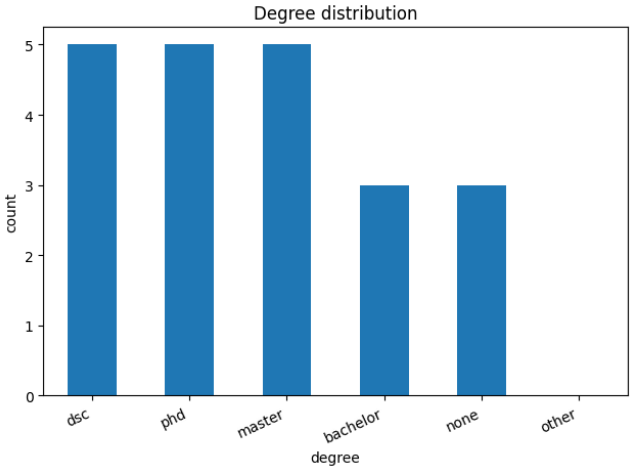
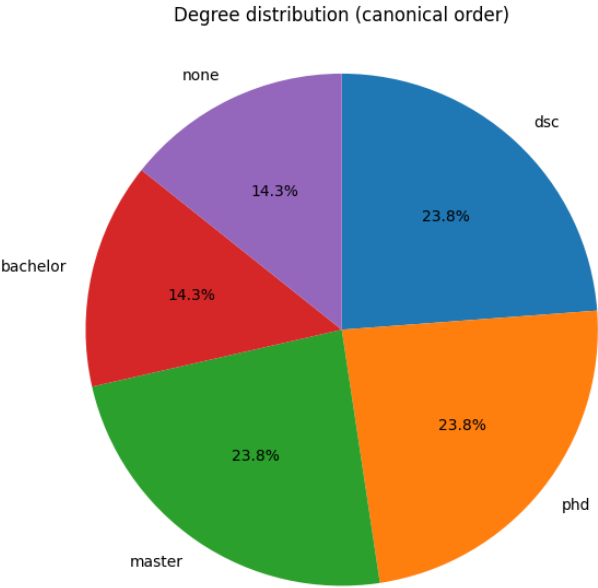
Average certificates per employee: 2.90

Employees with degree & performance_score > 85: 2

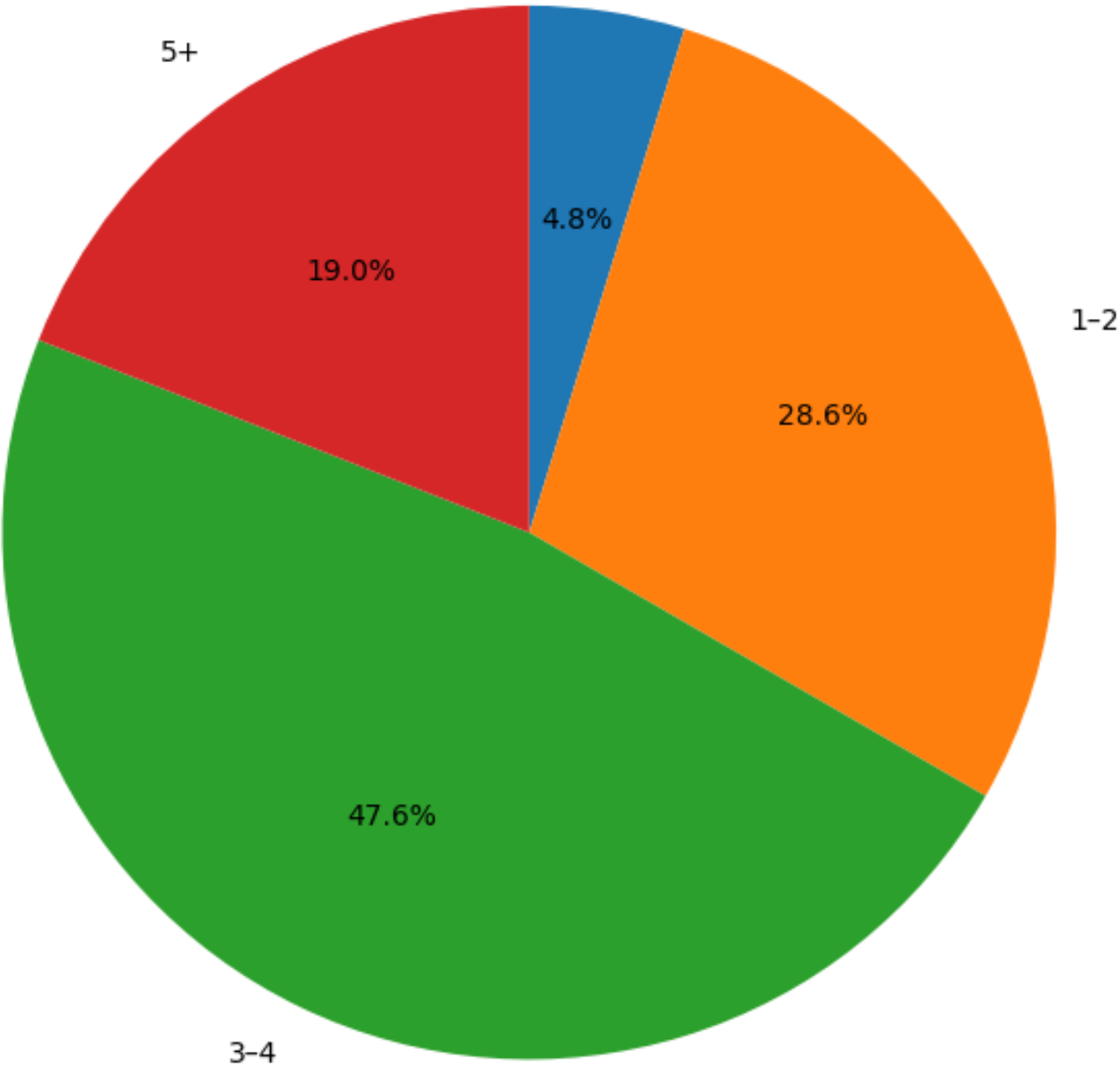
* [652] Кузнецова Екатерина Денисовна - Главный научный сотрудник; degree=dsc; score=95.0; certs=3

* [661] Орлов Сергей Витальевич - Старший научный сотрудник; degree=phd; score=87.1; certs=5

Scientific - charts



Certificates per employee (grouped)



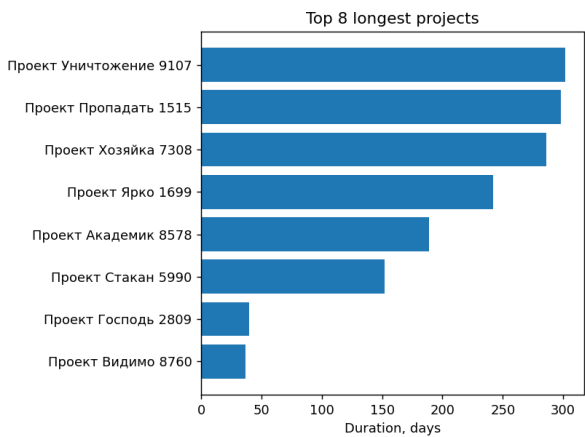
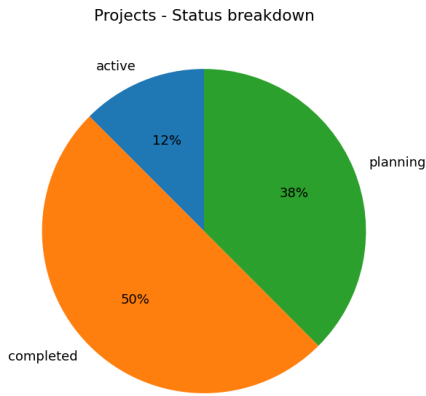
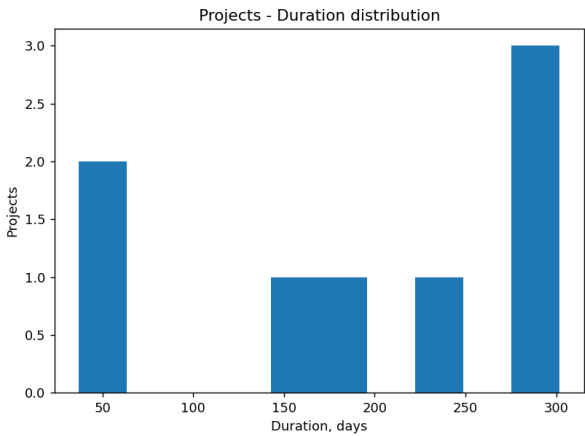
2) PROJECT ANALYSIS

Average project duration (days): 193.2

Project success rate (completed/total): 50.0%

Longest project: [PROJ_0028] Проект Уничтожение 9107 - 302 days

Projects - charts



3) INNOVATION EFFECTIVENESS

Average ROI - R&D: 0.16

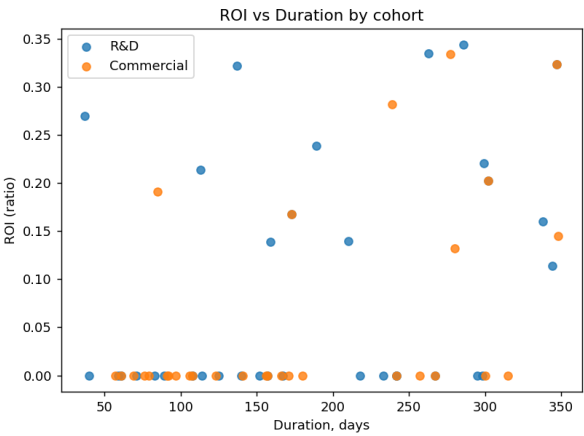
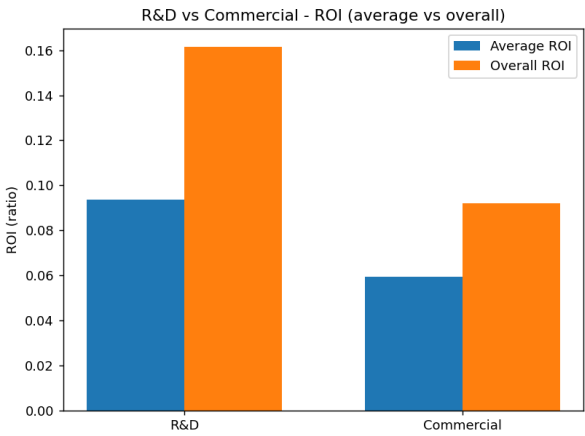
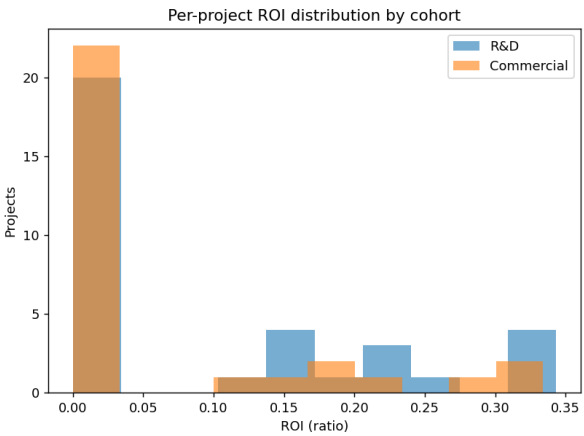
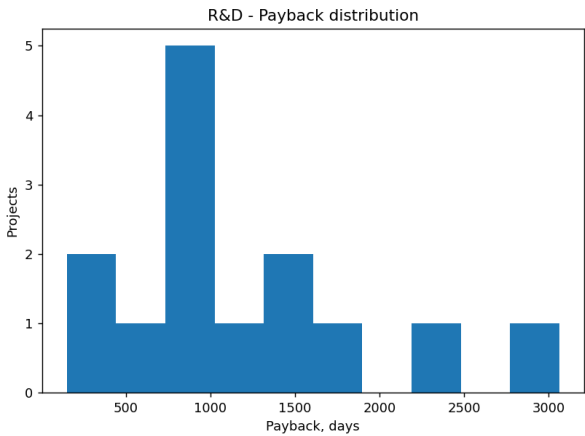
Average ROI - Commercial: 0.09

Typical R&D payback (median): 994.3 days

Summary (aggregate & average):

- R&D: n=34, avg ROI=0.094 (9.4%), overall ROI=0.162 (16.2%), payback~994.3 days, success=41.2%
- Commercial: n=30, avg ROI=0.059 (5.9%), overall ROI=0.092 (9.2%), payback~953.2 days, success=26.7%

Innovation - charts



4) INTERDEPARTMENTAL COLLABORATION

Collaboration rate (joint projects): 87.5%

Overall ROI of joint projects: 0.188

Top partners (by frequency)

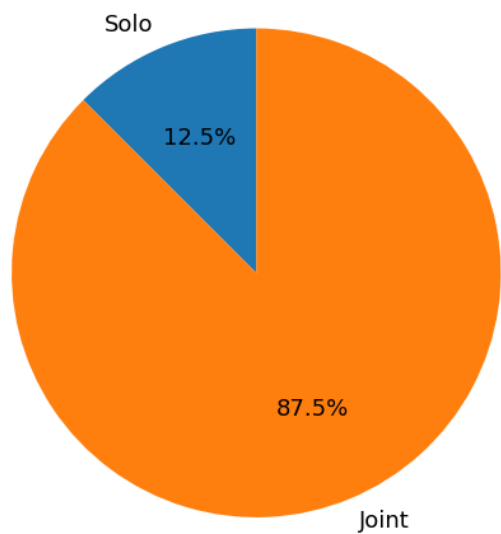
- [11] Сборочный цех: 2 projects, completed=2, ROI=0.229 (22.9%)
- [19] Отдел клиентского сервиса: 2 projects, completed=1, ROI=0.183 (18.3%)
- [12] Цех контроля качества: 2 projects, completed=1, ROI=0.167 (16.7%)
- [13] Отдел логистики: 2 projects, completed=0, ROI=0.000 (0.0%)
- [14] Складской комплекс: 2 projects, completed=0, ROI=0.000 (0.0%)

Top partners by aggregate ROI:

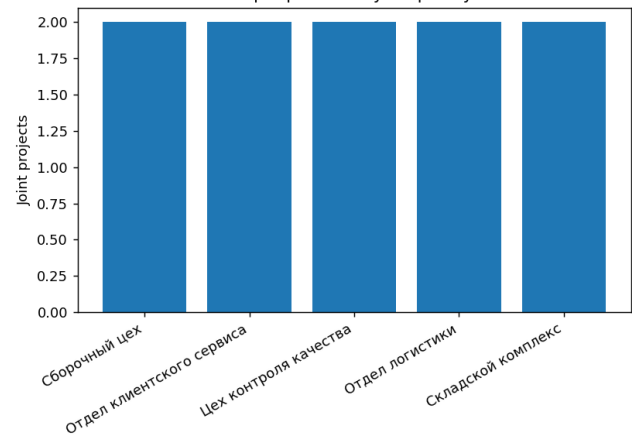
- [3] Отдел тестирования: ROI=0.343 (34.3%), projects=1
- [30] Аналитический центр: ROI=0.343 (34.3%), projects=1
- [29] Отдел патентования: ROI=0.270 (27.0%), projects=1
- [24] Отдел закупок: ROI=0.238 (23.8%), projects=1
- [11] Сборочный цех: ROI=0.229 (22.9%), projects=2

Collaboration - charts

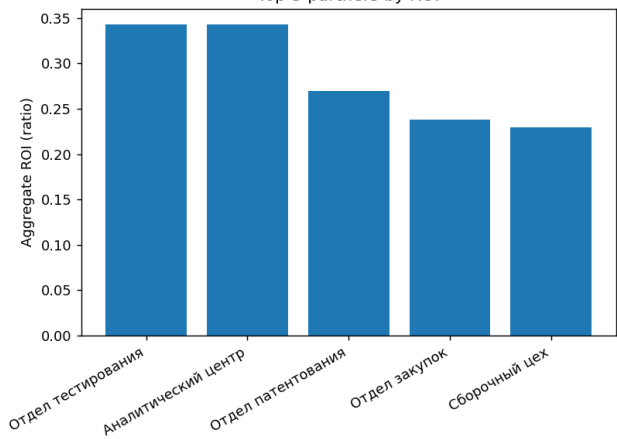
Collaboration rate (solo vs joint)



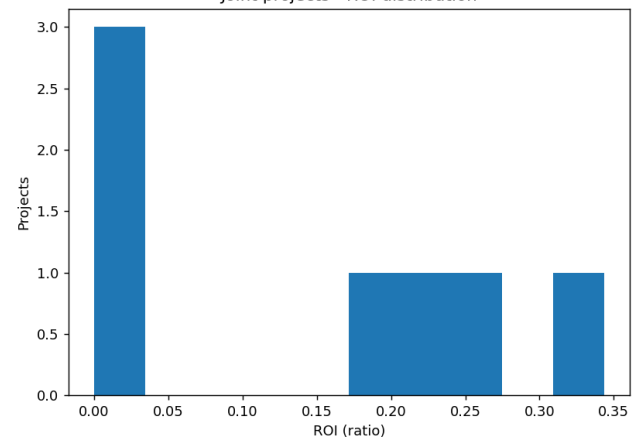
Top-5 partners by frequency



Top-5 partners by ROI



Joint projects - ROI distribution



5) DEVELOPMENT STRATEGY

Optimal Budget for Department 26:

- * planning: 1,595,344
- * active: 798,344
- * completed: 3,215,158
- * min (planning+active): 2,393,688
- * reserve (fixed): 500,000
- * final (min + reserve): 2,893,688
- * all (planning+active+completed): 5,608,846

Current budget of department 26: 5,500,000

Gap (final - current): -2,606,312

Success criteria:

1. Project completed: is_completed=True / status='completed'
2. Valid department 26 allocation: budget_allocation > 0.

Department 26 KPIs (by participation share):

- * Projects with 26: 8
- * Aggregate ROI: 0.164
- * Average ROI: 0.141
- * Success rate (completed), %: 50.0%
- * Median payback (days): 713.2
- * Budget utilization (avg), %: 63.4%

Monitoring metric system:

1. Aggregate ROI, T4Q.
2. Average ROI.
3. Median payback (days).
4. Success rate (completed), %.
5. Budget utilization (actual/plan), %.
6. Average duration (duration_days).
7. Collaboration rate (joint projects), %.