

# ATECO Sector Analysis - Enhanced Statistical Report

Analysis Date: December 16, 2025  
Dataset: Tidier\_Dataset.csv (16 fields grouped by color)

## Executive Summary with Statistical Insights

Statistical Metric	Value
Total Companies Analyzed	292
Total ATECO Sectors	13
Overall Completion Rate (2024)	11.5%
Companies with Any Data (2024)	39.7%
Companies with Full 16 Fields (2024)	0.0%
Average Fields per Company (2024)	1.84
Median Fields per Company (2024)	0.0
Standard Deviation (2024)	2.79
Overall Trend 2022-2024	+2.9%
Engagement Growth 2022-2024	-6.8%
High Performing Sectors (>40%)	0
Medium Performing Sectors (20-40%)	0
Low Performing Sectors (<20%)	13

# 1. Statistical Distribution Analysis

Detailed analysis of field completion distributions across all sectors and years

Fields Completed	Companies (2022)	% (2022)	Companies (2023)	% (2023)	Companies (2024)	% (2024)
0	156	53.4%	150	51.4%	176	60.3%
1-5	129	44.2%	133	45.5%	81	27.7%
6-10	7	2.4%	9	3.1%	31	10.6%
11-15	0	0.0%	0	0.0%	4	1.4%
16	0	0.0%	0	0.0%	0	0.0%

## Distribution Summary:

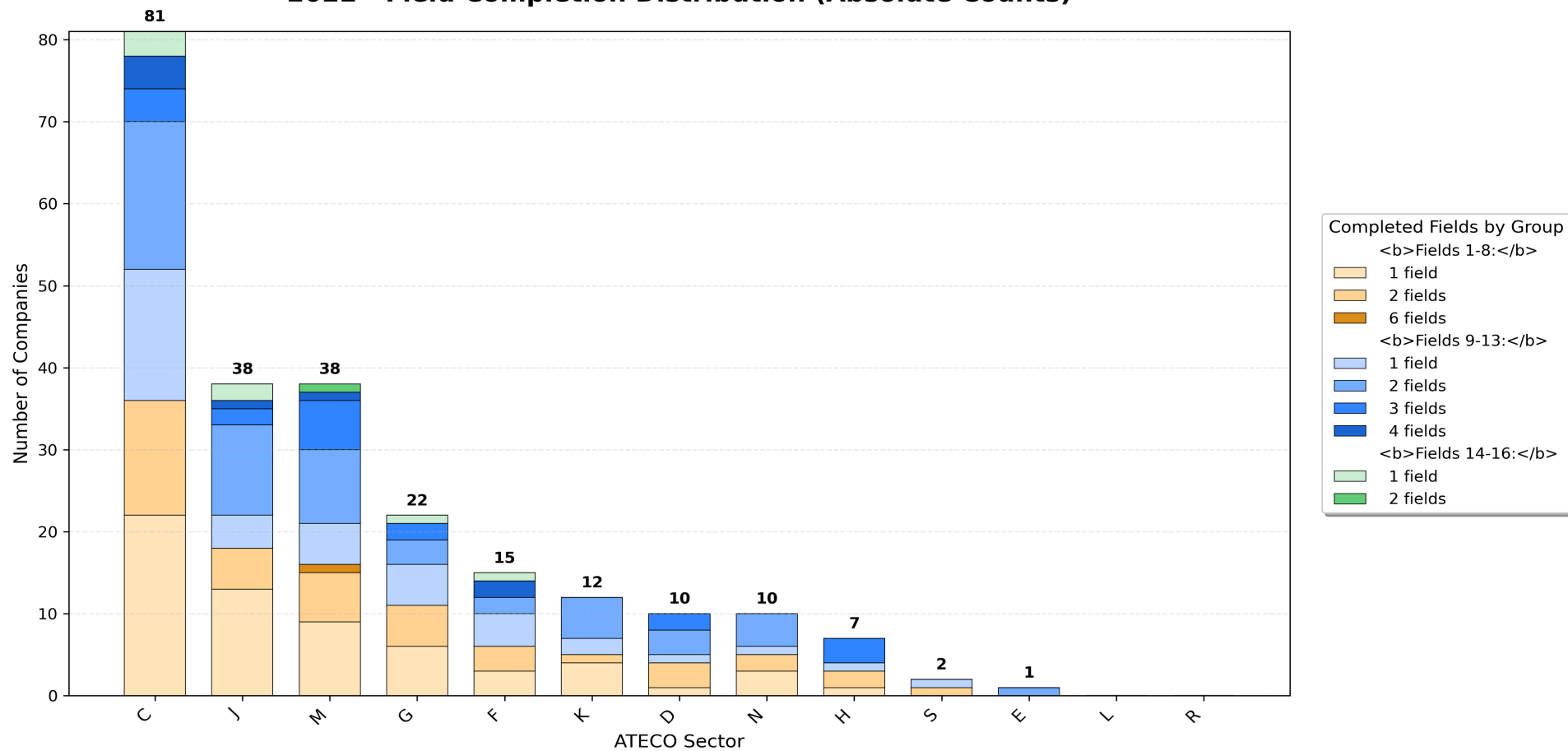
- Most common completion level (mode): 0 fields
- 25th percentile (Q1): 0.0 fields
- 50th percentile (median): 0.0 fields
- 75th percentile (Q3): 3.0 fields
- Interquartile Range (IQR): 3.0 fields

## 2. Absolute Value Charts by Year

Each bar shows the number of companies with completed fields in each sector. Sorted by total count (descending).

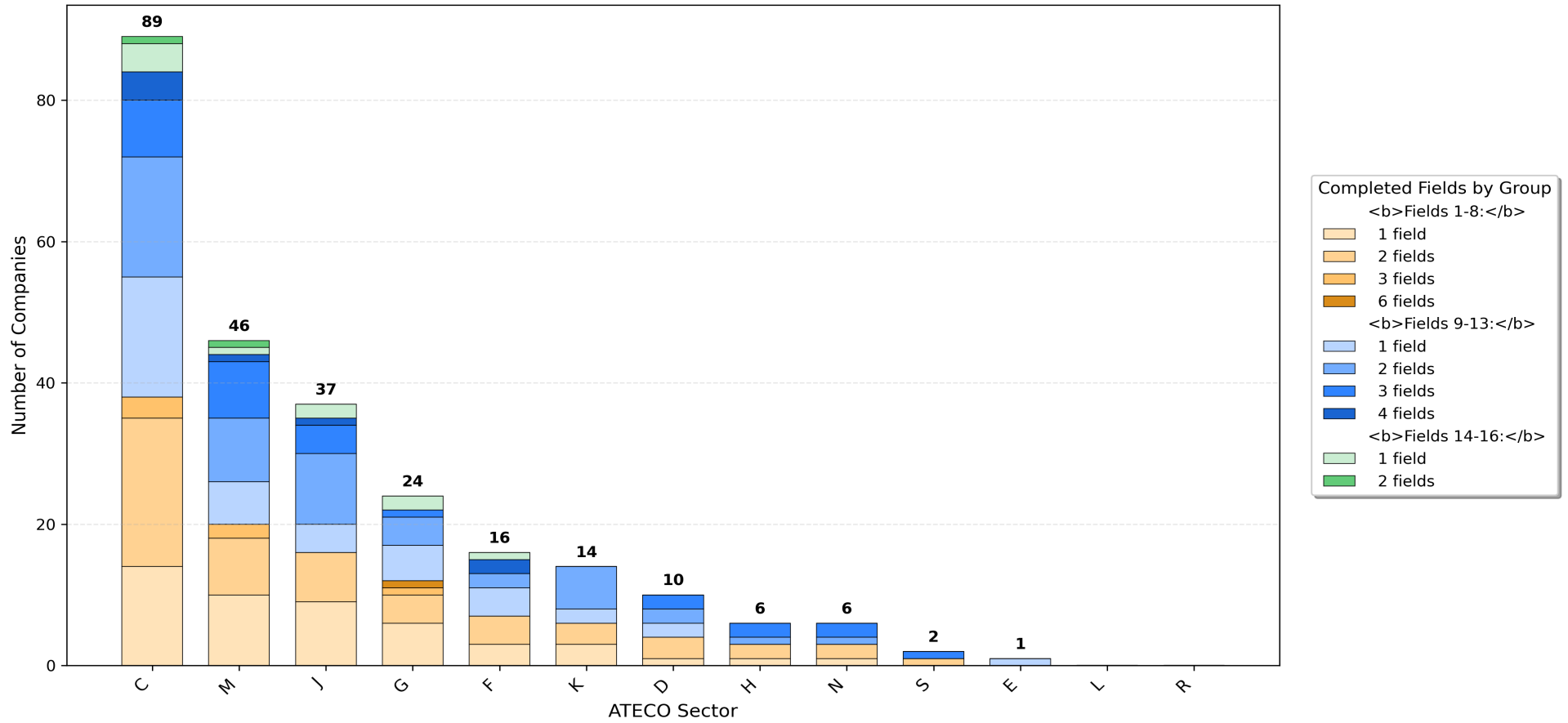
## 2022 - Absolute Counts (Sorted by Total)

### 2022 - Field Completion Distribution (Absolute Counts)



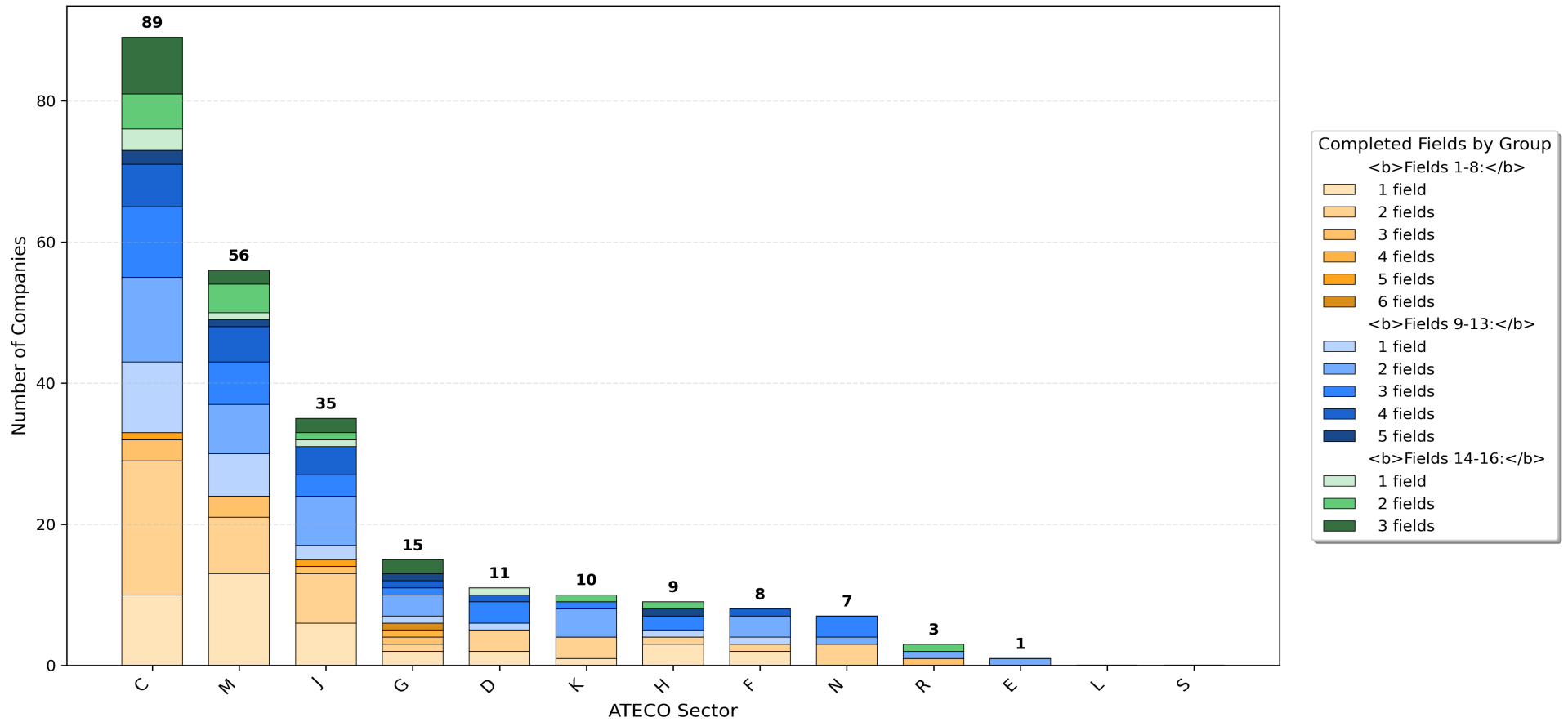
## 2023 - Absolute Counts (Sorted by Total)

2023 - Field Completion Distribution (Absolute Counts)



## 2024 - Absolute Counts (Sorted by Total)

## 2024 - Field Completion Distribution (Absolute Counts)

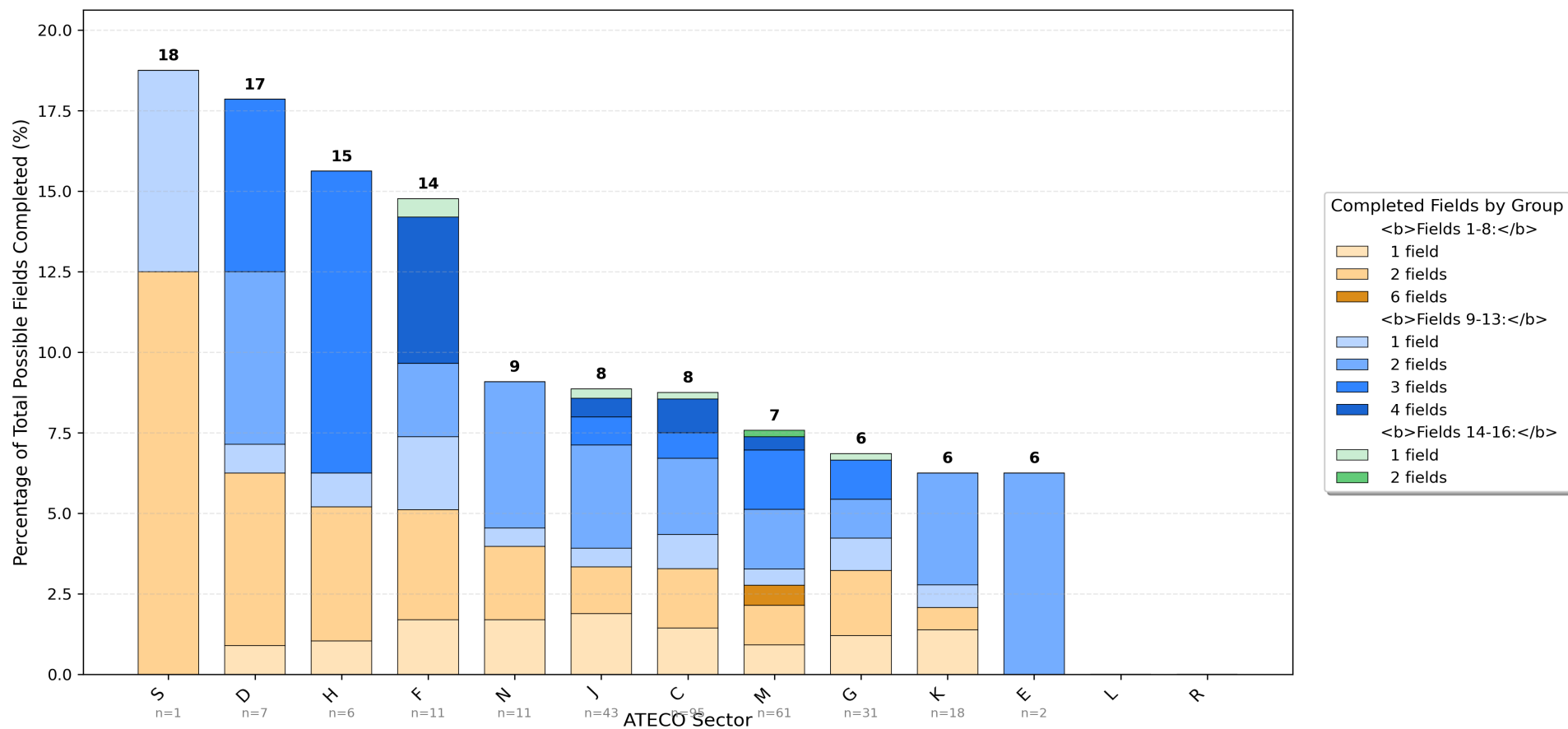


### 3. Percentage Charts by Year

Each bar shows the percentage of companies with completed fields in each sector. Bars show realistic percentages (not capped at 100%). Sorted by percentage (descending).

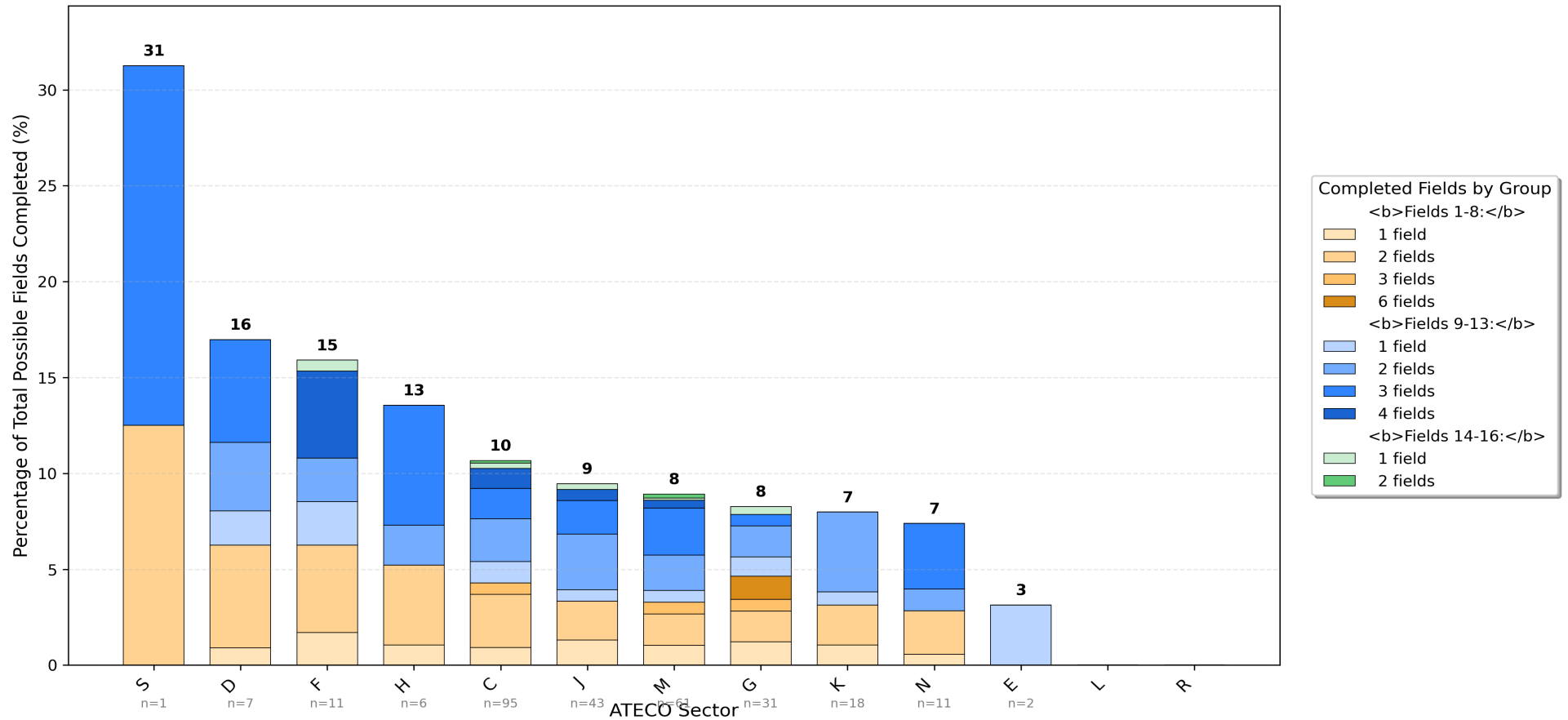
#### 2022 - Percentage Distribution (Sorted by %)

## 2022 - Percentage of Total Fields Completed (Stratified)



## 2023 - Percentage Distribution (Sorted by %)

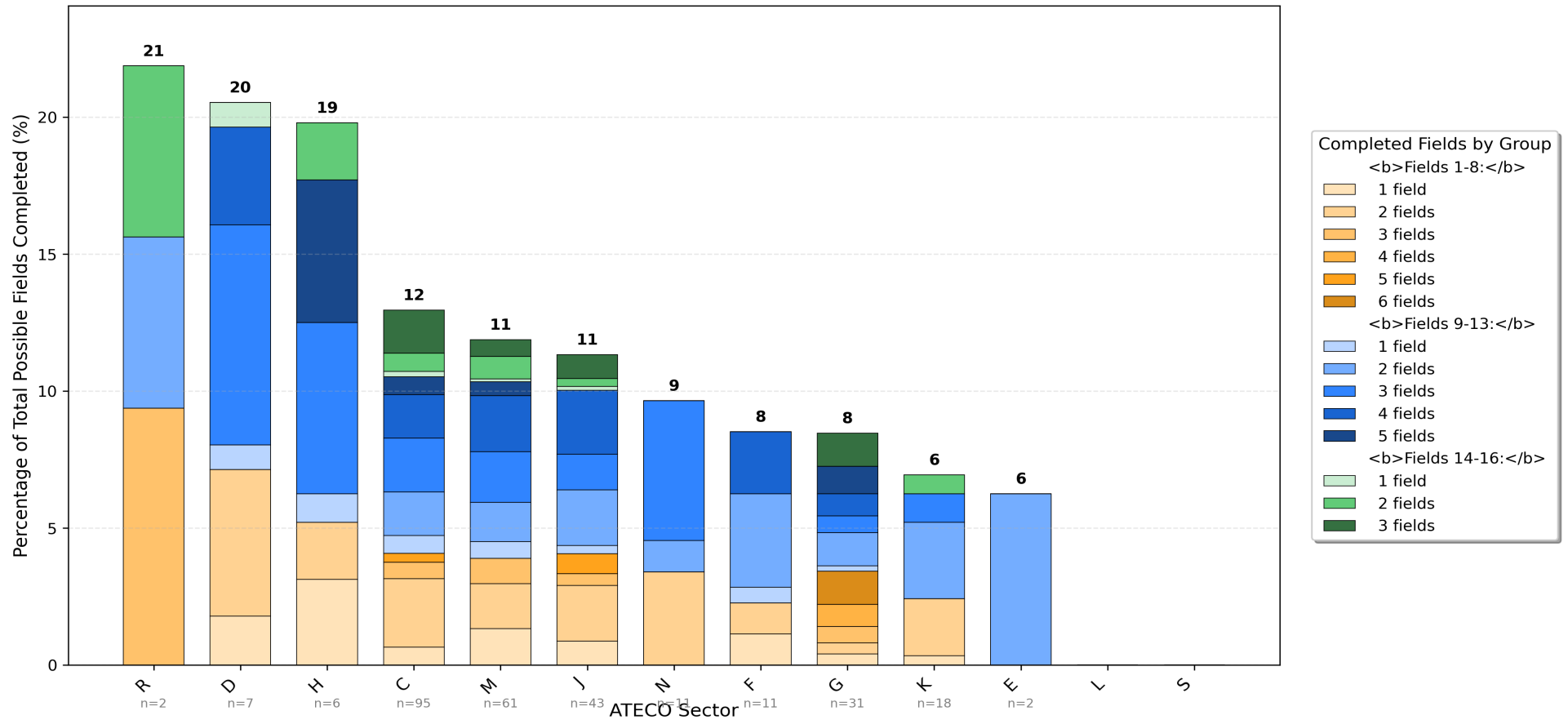
## 2023 - Percentage of Total Fields Completed (Stratified)



## 2024 - Percentage Distribution (Sorted by %)



## 2024 - Percentage of Total Fields Completed (Stratified)



## 4. Sector Performance Classification

No high performing sectors found

No medium performing sectors found

### Low Performers (<20% overall completion): 13 sectors

- D: 18.5% avg completion, 7 companies, Trend: +2.7%
- S: 16.7% avg completion, 1 companies, Trend: -18.8%
- H: 16.3% avg completion, 6 companies, Trend: +4.2%
- F: 13.1% avg completion, 11 companies, Trend: -6.3%
- C: 10.8% avg completion, 95 companies, Trend: +4.2%
- J: 9.9% avg completion, 43 companies, Trend: +2.5%
- M: 9.5% avg completion, 61 companies, Trend: +4.3%
- N: 8.7% avg completion, 11 companies, Trend: +0.6%
- G: 7.9% avg completion, 31 companies, Trend: +1.6%
- R: 7.3% avg completion, 2 companies, Trend: +21.9%
- K: 7.1% avg completion, 18 companies, Trend: +0.7%
- E: 5.2% avg completion, 2 companies, Trend: +0.0%
- L: 0.0% avg completion, 4 companies, Trend: +0.0%

## 5. Performance Summary Table (2024)

All sectors sorted by overall completion percentage in 2024 (descending)

Sector	Total Cos	2024: Overall %	2024: Avg Fields	2024: % Any	Trend 22-24
R	2	21.9	3.5	50.0	21.9
D	7	20.5	3.3	71.4	2.7
H	6	19.8	3.2	66.7	4.2
C	95	13.0	2.1	43.2	4.2
M	61	11.9	1.9	44.3	4.3
J	43	11.3	1.8	37.2	2.5
N	11	9.7	1.5	36.4	0.6
F	11	8.5	1.4	45.5	-6.3
G	31	8.5	1.4	22.6	1.6
K	18	6.9	1.1	27.8	0.7
E	2	6.2	1.0	50.0	0.0
L	4	0.0	0.0	0.0	0.0
S	1	0.0	0.0	0.0	-18.8

## 6. Overall Engagement Trends (All Sectors Combined)

Year	Overall Completion %	Companies with Any Data	Avg Fields/Company	Trend
2022	8.6%	46.6%	1.38	-
2023	9.8%	48.6%	1.57	+1.2%

2024	11.5%	39.7%	1.84	+1.7%
Overall Trend (2022-2024)	+2.9%	-6.8%	+0.46	+2.9%

## 7. Advanced Statistical Insights

1. Distribution Analysis: The completion distribution shows moderate variability across companies.
2. Central Tendency: Median completion (0.0 fields) vs Mean (1.84 fields) indicates right-skewed distribution.
3. Quartile Analysis: 25% of companies complete  $\leq 0.0$  fields, while 75% complete  $\leq 3.0$  fields.
4. Annual Growth: Average annual growth rate in completion is 1.43% per year (2022-2024).
5. Engagement Rate: 39.7% of companies have at least one completed field.
6. Full Compliance: Only 0.0% of companies have all 16 fields completed.
7. Visual Analysis: Charts are sorted in descending order for easier comparison of sector performance.
8. Percentage Interpretation: Bars show percentage of companies with completed fields, not percentage of total possible fields completed.

## Conclusions and Strategic Recommendations

1. Focus improvement efforts on sectors with consistently low completion rates across all field groups.
2. Develop targeted strategies for each field group based on sector-specific performance patterns.
3. Monitor sectors showing declining trends for early intervention and support.
4. Recognize and replicate best practices from high-performing sectors with similar characteristics.
5. Use both absolute and percentage views to understand both scale and proportional engagement.
6. Implement group-specific training programs for sectors struggling with particular field categories.
7. Set realistic improvement targets based on quartile analysis and distribution patterns.
8. Regular statistical monitoring should inform resource allocation and strategy adjustments.
9. Consider sector size when designing engagement strategies, as challenges differ between large and small sectors.
10. Note: Percentage charts show realistic values - 100% would require all companies to have all 16 fields completed.