Assignment 4 - Becoming an Independent Data Scientist

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1 Week 4 Assignment

1.1 Investigating City of Toronto Spending

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2 1 Region and Domain

For this assignment, we focused on an area of local importance to the author: Toronto, Canada. We decided to analyze financial data (contract spending) to find out how the City of Toronto spends its funds.

3 2 Research Question

"Which division(s) of the City of Toronto spent the most money on contractor services in 2021?"
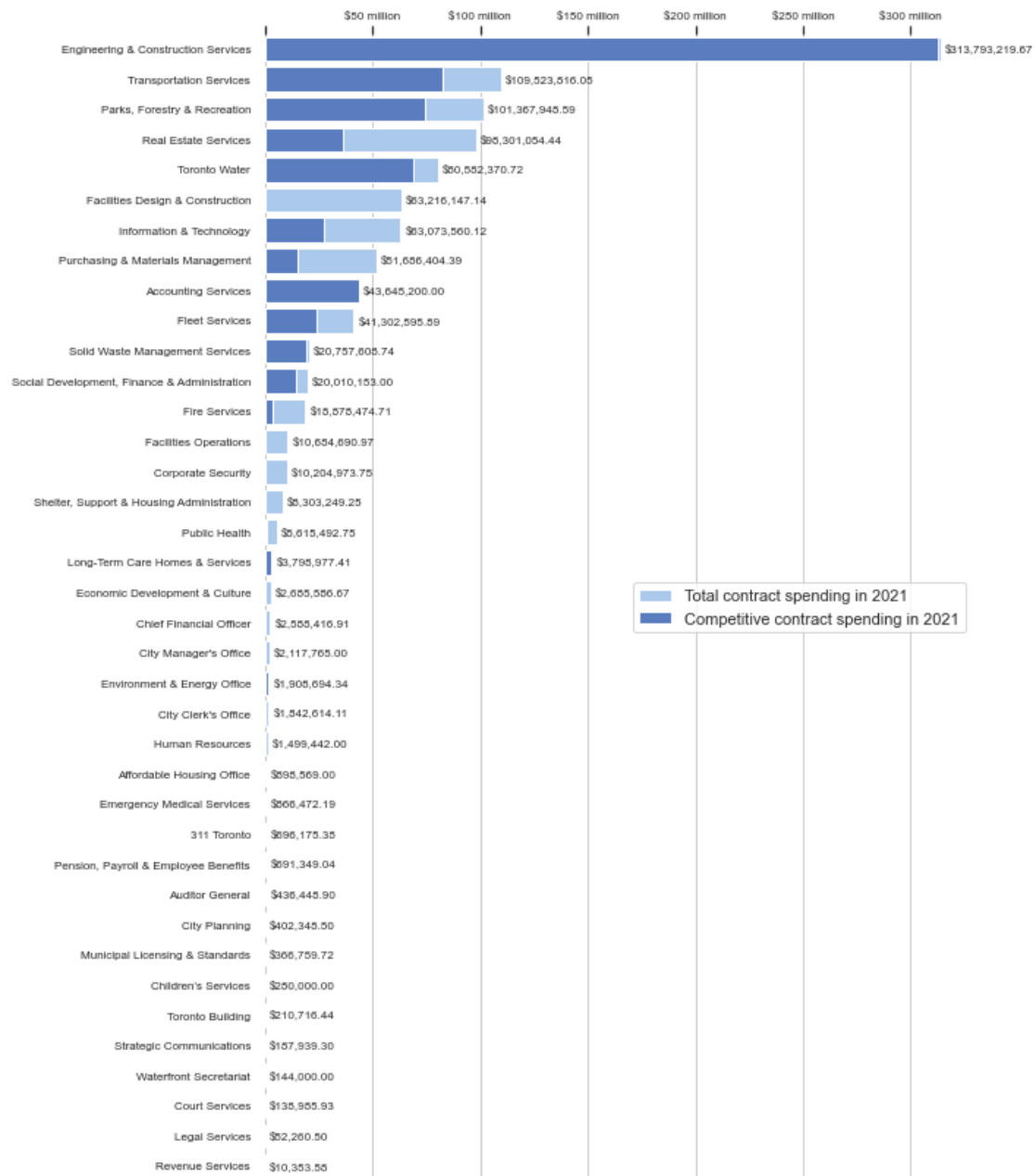
4 3 Links

For this assignment, we scraped all competitive and non-competitive contract data available on the government website here:

Competitive contracts: https://wx.toronto.ca/inter/pmmd/callawards.nsf/postedawards?OpenView

Non-competitive contracts: https://wx.toronto.ca/inter/pmmd/solesource.nsf/posted?OpenView&Start=1&

5 4 Data Visualization

City of Toronto's Contract Spending in 2021

	$50 million	$100 million	$150 million	$200 million	$250 million	$300 million

Engineering & Construction Services — $313,793,219.67

Transportation Services — $109,523,516.05

Parks, Forestry & Recreation — $101,367,945.59

Real Estate Services — $95,301,054.44

Toronto Water — $50,552,370.72

Facilities Design & Construction — $63,216,147.14

Information & Technology — $63,073,560.12

Purchasing & Materials Management — $51,656,404.39

Accounting Services — $43,645,200.00

Fleet Services — $41,302,595.59

Solid Waste Management Services — $20,757,605.74

Social Development, Finance & Administration — $20,010,153.00

Fire Services — $15,575,474.71

Facilities Operations — $10,654,690.97

Corporate Security — $10,204,973.75

Shelter, Support & Housing Administration — $5,303,249.25

Public Health — $5,615,492.75

Long-Term Care Homes & Services — $3,795,977.41

Economic Development & Culture — $2,655,556.67

Chief Financial Officer — $2,555,416.91

City Manager's Office — $2,117,765.00

Environment & Energy Office — $1,905,694.34

City Clerk's Office — $1,542,514.11

Human Resources — $1,499,442.00

Affordable Housing Office — $895,569.00

Emergency Medical Services — $866,472.19

311 Toronto — $696,175.35

Pension, Payroll & Employee Benefits — $691,349.04

Auditor General — $436,445.90

City Planning — $402,345.50

Municipal Licensing & Standards — $366,759.72

Children's Services — $250,000.00

Toronto Building — $210,716.44

Strategic Communications — $157,939.30

Waterfront Secretariat — $144,000.00

Court Services — $135,955.93

Legal Services — $52,260.50

Revenue Services — $10,353.55

Legend:
- Total contract spending in 2021
- Competitive contract spending in 2021

6 5 Discussion