PATENT APPLICATION ANALYSIS – THE ISRAELI GOVERNMENTAL SECTOR

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Sapir Academic College, School of Law Expert Meeting on Managing Intellectual Property Assets in the Governmental Sector, (Geneva, May 2019)



BACKGROUND

Patent Analysis - Introduction

- Patent analysis takes a large amount of raw, unprocessed data and generate unique insights and valuable perspective:
 - Entities, Sectors, Countries
 - Dates: Filing, Publication, Registration
 - Inventors and affiliations, Owners
 - Technology fields
 - Citation analysis
 - Collaboration analysis



Use of Patent Data

- Strategic R&D Planning
 - Identify technology trends
 - Identify emerging trends
 - Identify crowded areas and white space



- Risk & Opportunity assessment by competitor monitoring
 - Identify new products in the pipeline
 - Identify existing solutions/technologies for technical problems
 - Identify business opportunities
 - Identify active players, experts
 - Who bought/sold/licensed IP rights

Patent Analysis – For Policy Decision Making

- Identify core technologies and key industries
- Measure research outputs
- Predict industrial trends
- Identify collaboration opportunities









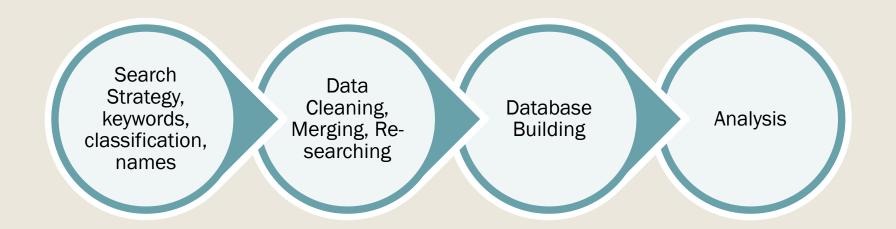


Methodological Limitations

- Patent as a strategic tool
- Legal changes affecting patentability
- Patent registration as part of organizational culture
- Defense Technologies



Methodology





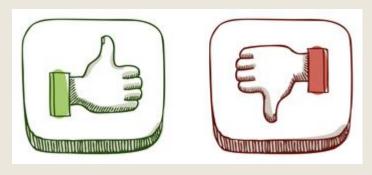
Searching for Patents – Where?

- Free Information Sources
 - National and International offices
 - USPTO, Espacenet, WIPO-Patentscope
 - Search Engines (Google Patents)
 - Specialized tools (The Lens, Free Patents Online)
- Commercial Sources
 - Orbit
 - Patbase
 - Thomson Innovation
 - And more





Free Databases



Pros

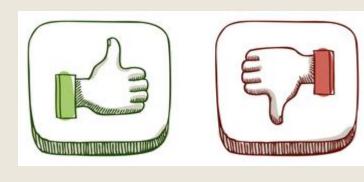
- Accessible
- Intuitive
- Free

Cons

- Partial Coverage
- Basic interfaces
 - No saving, organizing, exporting
 - No statistical tools
 - Do not allow searching in all fields (Claims, Full text)



Commercial Databases



Pros

- Wide coverage
- Advanced search tools
- Export tools in various formats
- Processing tools
 - Statistical analysis tools
 - Visualization tools
- Aids for finding keywords

Cons

High costs



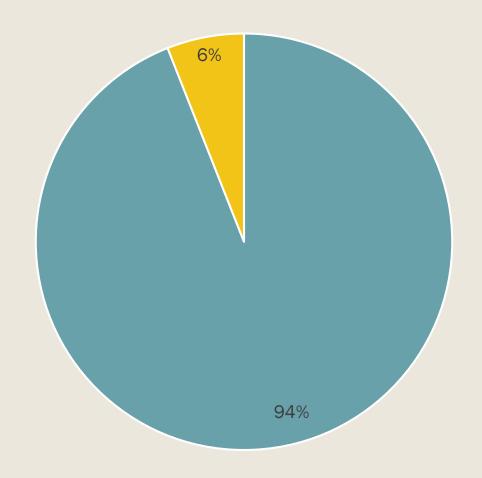
Database Building

EPD	Family	Assignees
19970211	AT367158 E 20070815 AT19980903275T 19980211; AU199860049 A1 19980826 AU19980060049 19980211; AU738516 B2	AGRICULTURAL RES ORG; MADASIT MEDICAL RES SERVICES AND; VLODAVSKY ISRAEL; STATE OF ISRAEL MINISTRY OF AGRICULTURE AGRICULTUR; PINES MARK; NAGLER ARNON; MIAO HUA QUAN; MADASIT MEDICAL RES SERVICES AMP AMP; ISRAEL STATE; HADASIT MEDICAL RESEARCH SERVICES AND DEVELOPMENT; AGRICULTURAL RESEARCH ORGANIZATION MINISTRY OF AGR; AGRICULTURAL RESEARCH ORGANIZATION; HADASIT MEDICAL RES SERVICES AND; HADASIT MEDICAL RES SERVICES A; HADASIT MED RES SERVICE

WHAT CAN BE LEARNED FROM PATENT ANALYSIS?

Governmental v. Israeli Patent Applications (1989-2015)

N=26372
■ Israeli Patent Applications
■ Israeli Governmental Patent Applications



Patent Applications Filed by Israeli Universities (2008-2017)



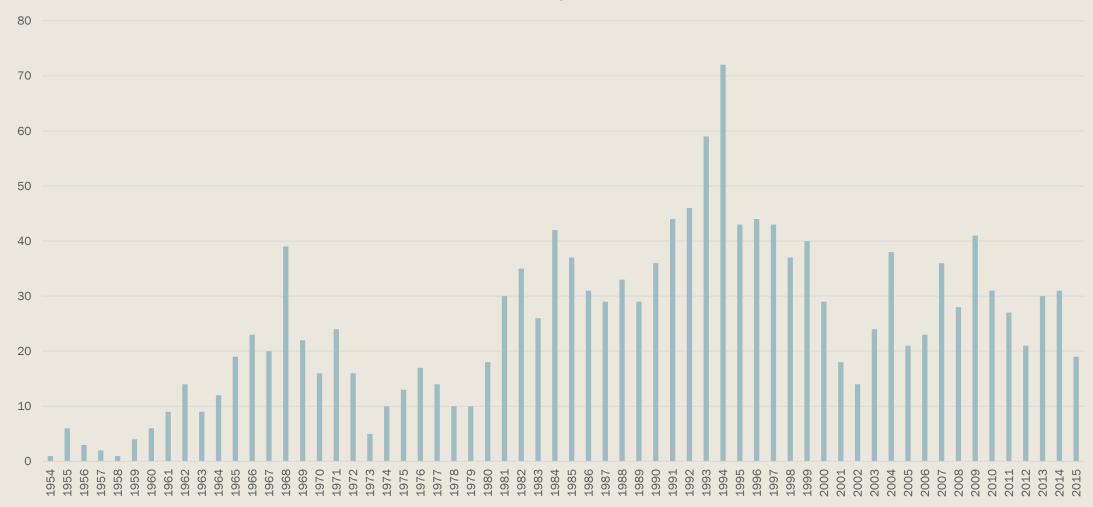
Israeli Central Bureau of Statistics, 2018

Revenue From Selling IP, 2008-2016 (Millions, USD)



Distribution of Government Patent Applications, filed in Israel (1954-2015)

n-=1577



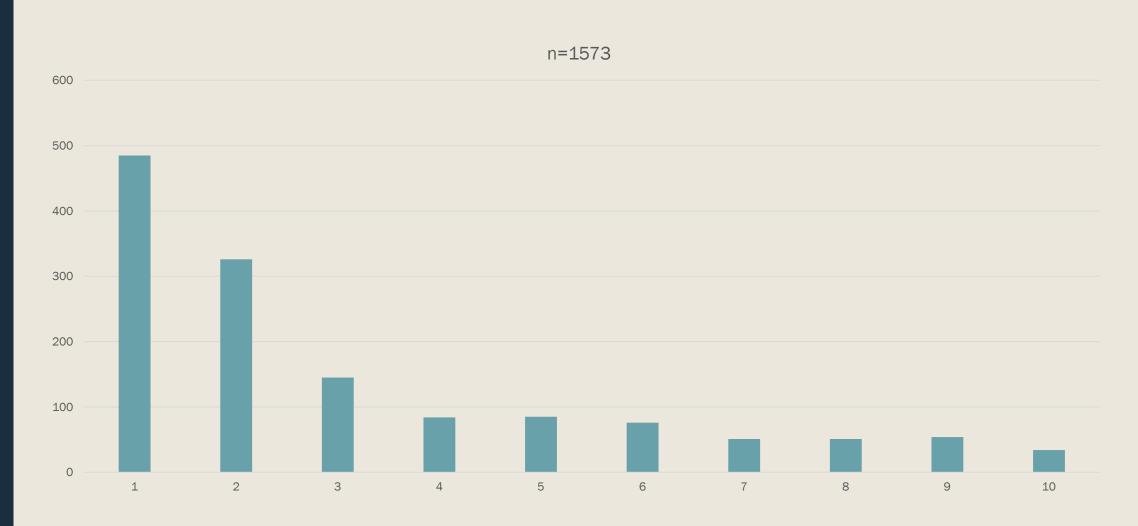
Governmental Applications - # of Countries (1989-2015)



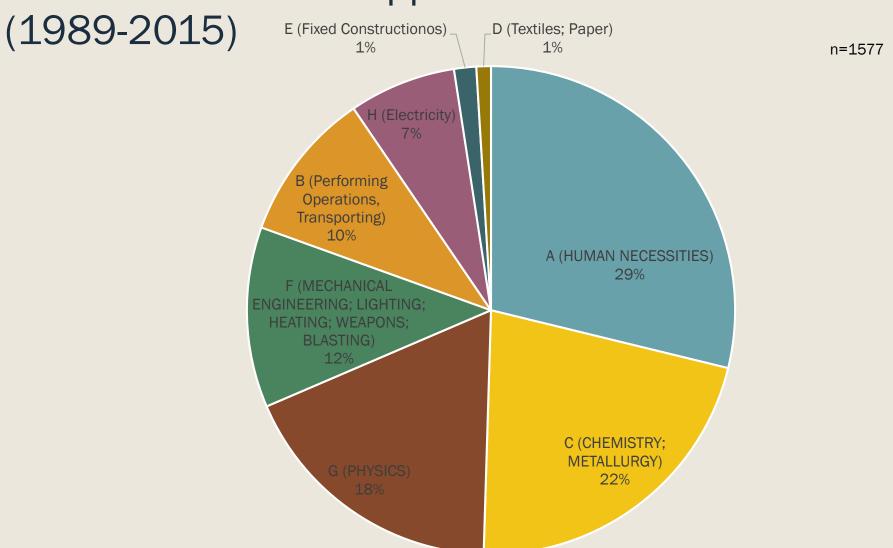
Distribution of Single Country Application (1989-2015)



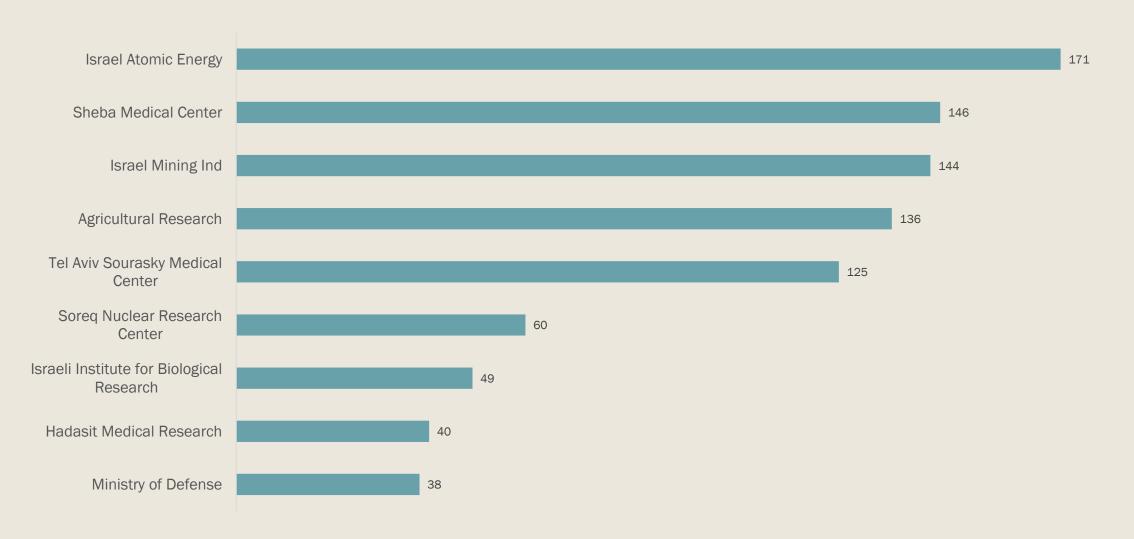
Governmental Applications - Family Size



Government Patent Applications - Classifications



Government Patent Applications (1989-2015) - Assignees

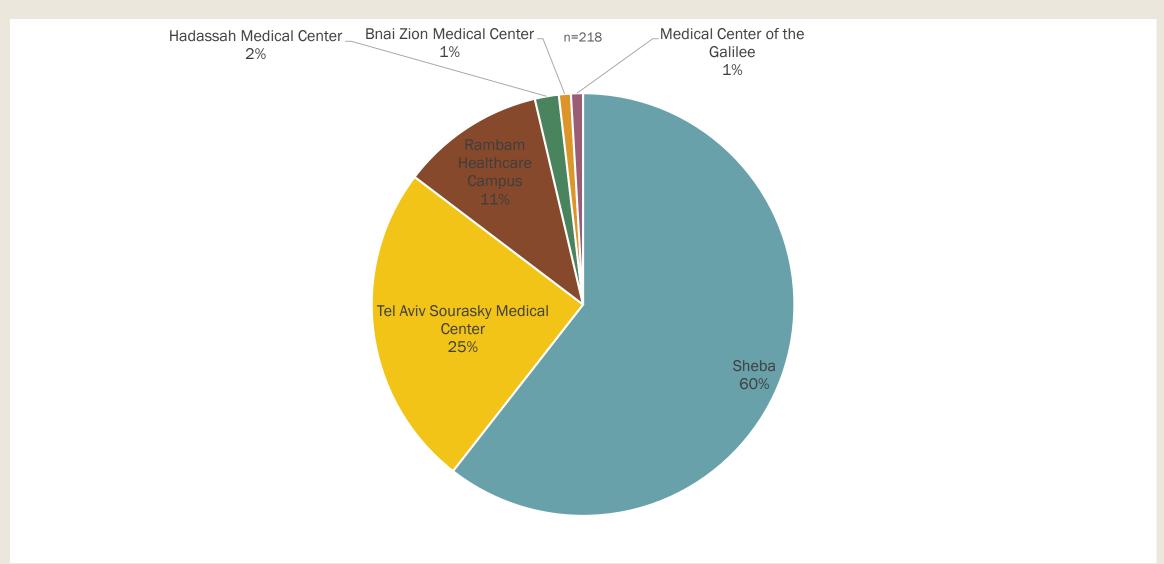


Government Patent Applications (1989-2015) – Top 15 Countries

n = 4404

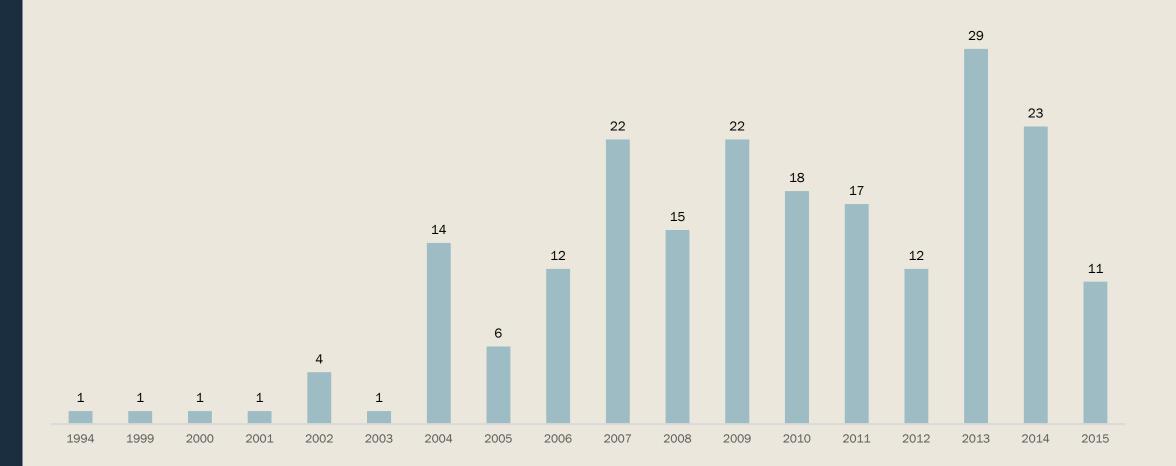


Governmental Hospitals Applications (1989-2015)



Distribution of Governmental Hospital Applications (1989-2015)

N = 210



THANK YOU!

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