

ipPerformance

Intellectual Property Management Performance Metrics Benchmark Scorecard



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The cross-industry report includes the following:

Section 1: All companies

Section 2: Revenue less than \$1 Billion

Section 3: Revenue between \$1 Billion and \$5 Billion

Section 4: Revenue greater than \$5 Billion

Intellectual Property Management Performance Metrics Benchmark Scorecard

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About the Intellectual Property Management Performance Metrics Benchmark Scorecard Report

Welcome to the *Intellectual Property (IP) Management Performance Metrics Benchmark Scorecard Report*. This unique report analyzes data compiled from companies participating in our benchmarking studies over the past three years. This report combines more than 90 metrics leading companies use to evaluate their intellectual program and make tactical and strategic decisions.

The report includes three types of data - operational internal and external spending, operational efficiencies, research & development effectiveness, and portfolio management and strategies. ipPerformance normalizes the data for easy comparisons with your internal data.

This report can be sub-grouped by the variables we analyze. The most common sub-groups are based on industry, company revenue, R&D spending, or invention activity.

The Importance of Benchmark Research

Companies are continually in a race without a finish line. Competition is fierce, and the leading companies are constantly looking to improve. IP benchmarking reports enable you to evaluate all aspects of your IP program. It helps you calibrate your practices to improve your efficiencies and effectiveness.

Benchmarking

What is Benchmarking?

- Benchmarking helps companies define their capabilities regarding a database of other organizations performing similar tasks. It provides a reference point to determine who is the best.

Why should my firm Benchmark?

- Firms benchmark their capabilities to understand further their performance and areas where improvements can be made. The data will provide best practices as measured by actual practices in the market.

How do I Benchmark my firm?

- Benchmarks are conducted by gathering crucial data regarding your firm's practices and comparing that information against a database of other organizations with certain information normalized to provide an accurate picture of the results.

Data Integrity

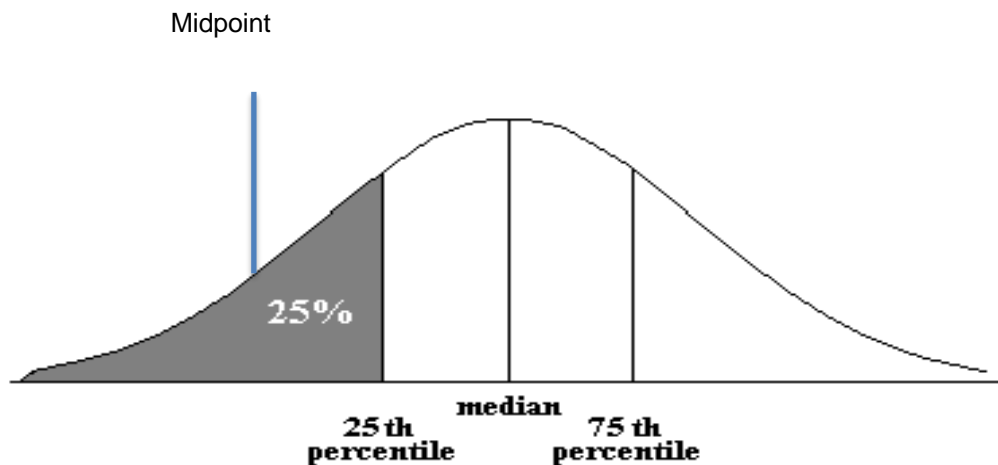
To ensure the integrity and accuracy of the survey results and performance metrics presented herein, ipPerformance Group employs the following data integrity practices:

- *Collection.* ipPerformance collects and aggregates data from their online survey collecting data from companies worldwide, which is maintained in electronic form in the ipPerformance database center.
- *Normalization.* To create the analysis sections of the report, data from numerous fields within the ipPerformance data set is normalized and parsed for detailed aggregation and analysis.
- *Scrubbing.* Misspellings (e.g., missing zeros) and other data errors occur periodically in the initial database entries. This is particularly true within the highly relevant "revenue," "R&D expenses," and "costs" fields, into which the participants may have inadvertently entered extra numbers, too few numbers, or text with numbers. To ensure accurate values and subgroupings, ipPerformance employs significant technological and human capital to "clean up" misspellings, transpositions, and other errors in these data fields.

Statistics Explanation

The statistics are organized into quartiles based on data arranged in order of increasing magnitude/values. The quartiles represent four ranges into three values and reflect a normal distribution. The median reflects the midpoint of the data, the 1st quartile is the midpoint or middle value of the lower half, and the 3rd quartile is the midpoint or middle value of the upper half of the data.

Below is an example. The grey area represents the 1st quartile, and the value we provide would be the midpoint in the range.



Profile Metrics

Company/Department IP Profile	1st Quartile	Median	3rd Quartile		Company
Annual Revenue (\$Millions)					
Annual R&D Spending (\$Millions)					
Number of Invention Disclosures Received from Employees					
Number of U.S. and non-U.S. Original (nonprovisional and provisional) Patent Applications					
WW R&D (Engineering) Personnel Employed					
Number of Active Matters (Disputes, oppositions, invalidation proceedings, litigations, arbitrations, etc.) Pending Worldwide					
Development Projects - internal "major" development					

Business Alignment

Portfolio Management - Patent Use	1st Quartile	Median	3rd Quartile		Company
Products (Products/Services)					
Licenses (Revenue/Cross license)					
Blocking (aka Defensive) (Used to defend market position/prevent market entry/surround competitor)					
Future use (Products/Services)					

Portfolio Management

Patent Portfolio	1st Quartile	Median	3rd Quartile		Company
Total Number of Pending Cases (Worldwide patent applications)					
Total Number of Granted Patents Held Worldwide					
Total Number of Patent Families					

Patent Portfolio - Area Filing	1st Quartile	Median	3rd Quartile		Company
Number of Countries Patents Filed In (convention filing)					
Number of Countries Patents Filed In (strategic/high commercial value)					

Patent Portfolio Age - Vitality	1st Quartile	Median	3rd Quartile		Company
Number of Patents held less than 3.5 years					
Number of Patents held for 3.5 – 7 years					
Number of Patents held for 7.5 – 11 years					
Number of Patents held for 11 – 15 years					
Number of Patents held more than 15 years					

Patenting Ratios	1st Quartile	Median	3rd Quartile		Company
Percentage of Internally Generated Invention Disclosures that Resulted in the Filing of Patent Applications					
Percentage of Prospective Inventors that Submitted Invention Disclosures					
Percentage of Patent Applications that began with Filing a Provisional Patent Application					
Ratio: Patents Cases Filed vs Patents Pruned					
Ratio: New Patent Applications to Patent Grants					

Patent Family Ratios	1st Quartile	Median	3rd Quartile		Company
Patents Worldwide to Patent Families					
Patent Applications to Patent Families					

Financial Management

IP Operations Expenses	1st Quartile	Median	3rd Quartile		Company
Annual IP Operational Expenses					
Annual Patent Operational Expenses					
Patent Operation Expenses Itemization (Percentage)					
Law Firm Professional Fees (non-litigation)					
Maintenance/Annuity					
All other Patent Office Fees (PTO)					
Operations, Salaries and Staffing Costs					
Patent Research or Analytic Professional Fees					
Litigation Fees					

Outside Counsel Management

Outside Counsel Usage and Cost	1st Quartile	Median	3rd Quartile		Company
Percentage of Initial (Priority) Nonprovisional Patent Applications Prepared by Outside Counsel					
Percentage of Annual Patent Prosecutions Handled by Outside Counsel					
Average Cost per Simple/Straightforward Patent Application Preparation					
Average Cost per Simple/Straightforward Patent Application Prosecution					
Average Cost per Complex Patent Application Preparation					
Average Cost per Complex Patent Application Prosecution					
Average Cost per Opinion					

Outside Counsel Efficiencies	1st Quartile	Median	3rd Quartile		Company
Average time in hours spent by in-house patent attorney/agent(s) for reviewing a patent application 1st draft prepared by IP law firm(s)					
Average time spent in hours by in-house patent attorney/agent for reviewing an office action response prepared by IP law firm(s)					
Average cycle-time in days for 1st draft preparation by IP law firm: from sending them the invention submission to receipt of 1st draft for review					
Average cycle-time in days for patent application filing by IP law firm: from 1st draft received to patent application Filing					

Personnel & Operations Management

IP Department Operations Analysis	1st Quartile	Median	3rd Quartile		Company
WW IP Expenses as Percentage of Revenue					
WW IP Expenses as Percentage of R&D Spending					
Patent Expenses as Percentage of Revenue					
Patent Expenses as Percentage of R&D Spending					

IP Operations - Personnel	1st Quartile	Median	3rd Quartile		Company
Number of Patent Attorneys					
Number of IP Attorneys (include Patent, Contract, Litigation, IP (e.g., TM, Copyright), and Licensing)					
Total Support Staff					

Intellectual Property Management Performance Metrics Benchmark Scorecard

Patent Attorney Cycle Time/Productivity	1st Quartile	Median	3rd Quartile		Company
Average time spent by Patent Attorney for drafting a patent application					
Average time spent by Patent Attorney for reviewing a draft prepared by outside counsel.					
Average time spent by Patent Attorney for prosecuting a substantive office action					
Average time spent by Patent Attorney for reviewing an office action response prepared by outside counsel					

Patent Attorney Efficiencies	1st Quartile	Median	3rd Quartile		Company
Average cycle time in days from invention disclosure submission to patent filing decision					
Average cycle in days for 1st draft preparation by inside patent attorney/agent(s) from patent filing decision to 1st draft patent application review					
Average cycle in days for patent filing by inside patent attorney/agent(s) from 1st draft completion to filing of patent application					

Intellectual Property Management Performance Metrics Benchmark Scorecard

Patent Attorney/Agent Workload Analysis/Yields	1st Quartile	Median	3rd Quartile		Company
Invention Disclosures per Patent Attorney					
Invention Disclosures per Patent Attorney/Patent Agent					
Patent Applications (Originals/Priority U.S. and non-U.S.) per Patent Attorney					
Patent Applications (Originals/Priority U.S. and non-U.S.) per Patent Attorney/Agent					
Worldwide Pending Patent Applications (Including foreign equivalents) per Patent Attorney					
Worldwide Pending Patent Applications (Including foreign equivalents) per Patent Attorney/Patent Agent					
Active Patent Matters per Patent Attorney					
Development Projects per Patent Attorney					
Development Projects per Patent Attorney/Patent Agent					
Total Number of Worldwide Patents Held (Including foreign equivalents) per Patent Attorney					
Total Number of Worldwide Patents Held (including foreign equivalents) per Patent Attorney/Agent					
Number of Patent Families per Patent Attorney					
Number of Patent Families per Patent Attorney/Agent					
R&D Spending (\$M) per Patent Attorney					
R&D Spending (\$M) per Patent Attorney/Agent					
Revenue (\$M) per Patent Attorney					
Revenue (\$M) per Patent Attorney/Agent					

Innovation Management

R&D Profile and Yield	1 st Quartile	Median	3 rd Quartile		Company
Development Projects - internal “major” development					
Percentage of Active Projects of Significant/High Commercial Value					
On average, Percentage of IDs that are of Significant/High Commercial Value per Project					

R&D Effectiveness Analysis	1 st Quartile	Median	3 rd Quartile		Company
Invention Disclosures per Inventor*					
Patent Applications per Inventor*					
Total Number of Invention Disclosures per Million Dollars of R&D Spending					
Total Number of Original Patents filed per \$1M of R&D spending - Patent Efficiency					
Revenue (\$M) per Patent Application (Priority/Original)					
R&D Spending (\$M) per Patent Application (Patent Intensity)					
R&D Spending (\$M) per Invention Disclosure (Disclosure Intensity)					
Revenue (\$M) per Invention Disclosure					

* Inventor is defined as person expected to submit an invention idea

Risk Management

Risk Management	1st Quartile	Median	3rd Quartile		Company
Number of New Product Clearances and Freedom To Operate Studies Conducted					
Patent/Technology-Related Infringement Notice Letters Initiated (Annual)					

Notes:

- Development projects refer to active internal “major” development projects (new products or processes).
- Patent applications refer to original or priority patent application filings (includes: Number of original conventional priority patent applications (utility/process) first filed in the U.S. and outside (nationals); Number of PCT priority applications filed in the U.S.; Number of PCT priority applications filed outside the U.S.; Number of provisional patent applications first filed in the US; Number of design patent applications first filed in the U.S.; and Number of industrial design applications first filed in non-U.S. jurisdictions).
- Corporate or business unit patent attorneys are aggregated.
- Significant/High Commercial Value projects or inventions impact growth, erosion prevention, or cost reductions. For example, this change may be expected or realized in more than 5% revenue, market share of more than 5%, operating margins of more than 5%, and cost reduction of 10%.

Industries Reported

- Aerospace/Defense
- Automotive
- Biotechnology (Instruments, Analytics, or Diagnostics)
- Biotechnology - Other
- Building Products or Construction
- Chemicals or Materials
- Consumer Electronics
- Computer Equipment
- Computer Software
- Consumer Household Durables
- Consumer Nondurables (excluding Food)
- Containers or Packaging
- Electrical Equipment
- Electronic Components and Equipment
- Financial and Insurance Services
- Food, Beverages, and Tobacco
- Machinery (Industrial or Agricultural)
- Medical Equipment and Supplies
- Office Products or Automation
- Petroleum or Energy
- Pharmaceuticals
- Photographic and Scientific Equipment
- Semiconductors
- Telecommunication Products
- Telecommunication Services
- Travel, Leisure, or Entertainment
- Research and Development
- High Technology

- Industry combinations (Examples)
- Chemicals/Pharmaceutical/Biotechnology/Medical Devices
- Consumer Products/Food & Beverage
- Electrical/Electronics/Components
- Chemicals/Petroleum/Energy
- Pharmaceutical/Biotechnology
- Software/Computers/Peripherals

More on ipPerformance Group

ipPerformance Group, Inc. (www.ipperform.com) is the leading intellectual property advisory company. We enable our clients to apply best practices and measure IP performance by drawing upon our knowledge of more than 450 intellectual property management benchmarks from Global 1000 companies. With this knowledge, you can solve complex intellectual property business problems and measurably enhance your ability to build value, manage risk, and improve performance in an intellectual property-driven world. The following outlines some of our other offerings.

ipPerformance's assessments apply its extensive experience with high-performance organizations to provide an objective and robust perspective on the leadership behaviors that will significantly affect sustained intellectual property program performance.

Intellectual Property Management Program “Yard Stick” Review

The “Yard Stick” is a comprehensive assessment of your intellectual property asset management program. It includes evaluating policies, procedures, workflows, software, people, operational performance metrics (costs, cycle-time, value), training programs, and stakeholder interactions. We provide an in-depth review of your operation, identify issues or concerns, and provide you with best practices and a roadmap with improvement opportunities.

Intellectual Property Management Performance Metrics Scorecard Review

An Intellectual Property Performance Metrics Scorecard is an effective performance metrics tool for communicating value, process efficiencies, and financial management to top management. The scorecard charts financial management, business alignment, portfolio management, risk management, people management, innovation management, and learning and knowledge growth. In addition, we offer workshops to help you develop a measurement program tailored to your unique organizational needs and construct a scorecard that provides your organization with strategic and operational metrics to help guide business decisions.

Intellectual Property Center of Excellence (IP Knowledge Center)

The IP Center of Excellence is an intellectual property asset management intranet portal system and content solution. This online solution incorporates ipProcess Manager, our comprehensive and detailed intellectual property program policies, forms, and procedures based on best practices customized to your company's environment. ipProcess Manager enables your organization to quickly establish robust, accessible, and documented controls for all aspects of your intellectual property program.

Intellectual Property Advantage: Portfolio Evaluation

ipPerformance will assist you in organizing, classifying, and evaluating your IP portfolio. Our methodology enables your organization to better manage your assets for value identification, cost reduction, litigation support, improved asset access and understanding, and reporting and communications. It enables you effectively to understand your portfolio.

Intellectual Property Advantage: Process Review and Roadmap

ipPerformance works with you to evaluate current processes and objectives against best practices. We then develop a “should be” map that illustrates improvement opportunities that align with your business strategy to create value, improve quality, and reduce costs. Your organization will benefit from our extensive experience applying best practices and understanding cultural change.

Intellectual Property Online Training Solutions for Stakeholders

ipPerformance Group offers extensive online eLearning training courses on intellectual property. These courses will help your company's business and technology professionals develop the skills to create, protect, manage, and monetize intellectual property.

Our eLearning curriculum reflects a diverse set of intellectual property asset training courses. We cover everything from improving a fundamental understanding of intellectual property to exploring strategic considerations of critical stakeholders in marketing, business management, supply chain/commercial management, and technology (R&D).

Inventor Intellectual Property IQ Assessment and Intellectual Property Culture Diagnostic

Establishing and maintaining a solid inventor IP attitude and understanding is vital to inspiring innovation and gaining valuable invention idea submissions. ipPerformance will assist your company in its effort to obtain and understand factors that will motivate your inventor community to identify and disclose valuable key invention ideas. Moreover, this assessment enables you to identify bottlenecks and critical areas for improvement that lead to an increase in valuable inventions and R&D's return on investment.

IP Management Software Selection and Return on Investment Evaluation

Selecting IP asset management software is a challenging activity. Indeed, it can be an extremely complex process to match software function and capability to your company's needs. Applying a practical and methodical approach will enable you to avoid vendors that cannot fulfill your needs and experience protracted delivery deadlines and inadequate deployment readiness. ipPerformance proprietary Software Solutions Request for Proposal (RFP) and selection tool is comprehensive with over 1,200 attributes. It enables you to prioritize your requirements and evaluate alternative solutions. We can also provide the additional service of walking you through the RFP process.

Strategy Development Workshop

Develop intellectual property strategies that enable your company to achieve business growth goals and sustainable competitive advantage. This one-day workshop has been developed to help intellectual property and business leaders develop and communicate clear IP strategies and tactics that are directly aligned with business strategy.

Drawing on ipPerformance advisors' extensive business and intellectual property experience, this highly interactive course uses lectures, case studies, group exercises, and classroom discussions to explore the foundations of strategic intellectual property. This workshop will provide you with our IP strategy planning guide, which includes an IP strategy framework, templates, techniques, performance metrics, and a perspective to help you develop strategic plans to excel in today's business environment.

ipProcess Manager

Establishing your intellectual property program's standard operating procedures can be time-consuming and complicated. ipProcess Manager is a comprehensive intellectual property program resource with workflows, procedures, policies, forms, templates, agreements, and flow charts. Our guide covers invention submission, review and decision-making, inventorship, portfolio management and inventory classification, agreement approvals, strategy development, foreign filing decisions, technology release, inventor reward, new product clearance, and handling unsolicited ideas. The ipPerformance ipProcess Manager is designed to help businesses take control of their intellectual property asset management operations through consistently implementing best practices.

Benchmarking Analysis

ipPerformance provides the largest off-the-shelf selection of intellectual property program best practices benchmark reports available. We can evaluate your program versus peers and best practices by applying this extensive repository. Additionally, utilizing our extensive company network, we can conduct a company-tailored benchmark analysis that enables your organization to investigate specific topics of concern.

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