

# Project scope

## Contents

- 1 Rationale
- 2 Search Strategy
- 3 Market data - Insurance sector
- 4 Year wise IP activity
- 5 Assignee wise IP activity
- 6 Country wise IP activity
- 7 Distribution of patents - Based on insurance type
- 8 Distribution of patents - Based on activity
- 9 Overall Trend - Based on insurance sector and respective activities
- 10 Insurance type Vs assignee and their activities

## Rationale

- Financial markets are a part of the changing business paradigms, across the globe - G. N. Bajpai
- Today, globalization of competencies, thinking and perspectives has been the part of Strategic Action Plan of all the major players in the financial markets, globally - G. N. Bajpai
- "The focus over the last year has been around proving the value of IT as a key contributor to business success," - David Holtzman
- Real-time documents provide faster time to market with a personal touch - Penn National Insurance

## Search Strategy

**Search date:** 14 Sept, 2006

**Database:** Micropatent (PatSearch Fulltext)

**Search Strings, Hits & Scope:**

- **Search I**
  - ♦ Query: (Life) AND (Insurance OR Reinsurance OR Polic\* OR Annuit\*) - 532 hits
  - ♦ Search scope ? Title, Abstract & Claims, Date - 2000 till date
  - ♦ Databases: US, EP, WO, JP, DE, GB and FR (common for all)
- **Search II**
  - ♦ Query: (computer) and (Insurance OR Reinsurance) and (Polic\* OR Annuit\*) ? 511 hits
  - ♦ Search scope ? Title, Abstract & Claims, Date 1991 till date
- **Search III**
  - ♦ Query: (Insurance OR Reinsurance OR polic\* or Annuit\*) limited by assignee (Insurance OR Bank) ? 345 hits
  - ♦ Search scope ? Title, Abstract & Claims, Date ? 1991 till date ? 345 hits
- Total # of records - Search I + Search II + Search III = 1239 (excluding duplicates and family members but includes off-target)

**Note:** All search hits exclude family members and duplicate patent records

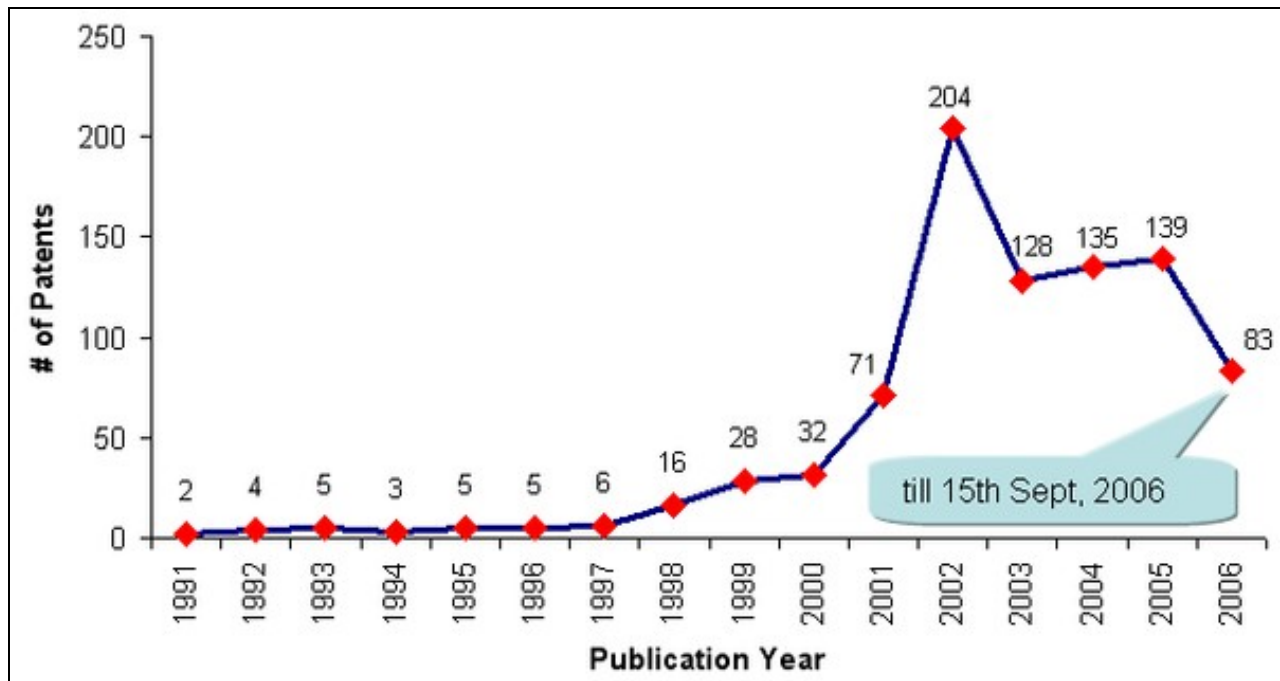
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## Market data - Insurance sector

- Insurance and risk management is an immense global industry. In America alone, the insurance business employs about 2.5 million people
- Life and health insurance in the United States will be about a \$725 billion in gross revenues business in 2006, compared to only about \$500 billion in 2002
- U.S. life insurance firms hold about \$3.8 trillion in assets
- Personal lines comprise another vast sector of insurance. For example, private passenger automobile insurance will be about a \$172 billion annual premium market in the U.S. for 2006
- Homeowners insurance is about a \$50 billion market
- Property and Casualty insurance premiums will total about \$450 billion in the U.S. for 2006

## Year wise IP activity

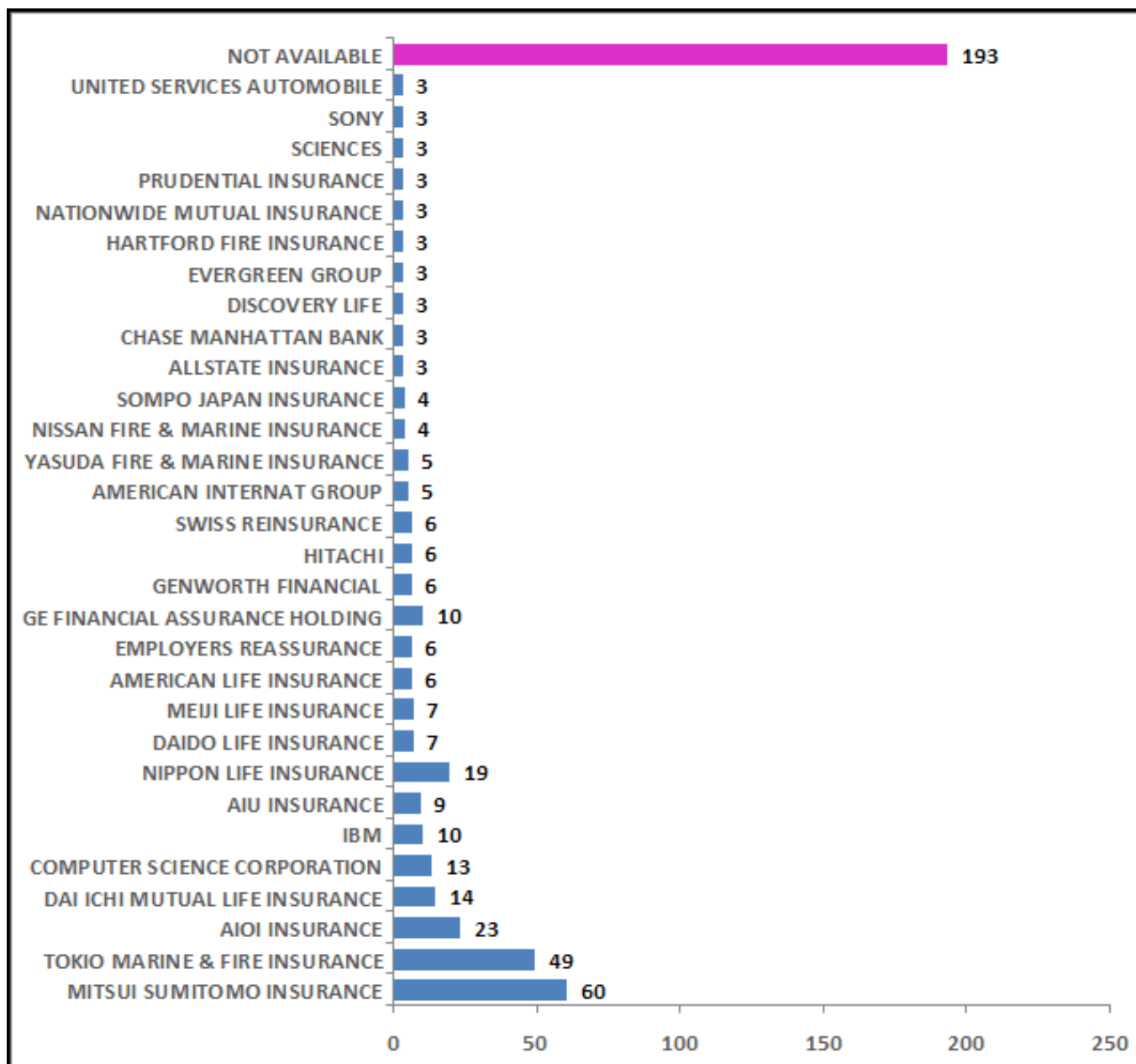
- Graph depicts IP activity based on publication year
- 866 patents filed in a span of 16 years (1991 - 15th Sept, 2006). Out of which 792 patents filed in last 7 years
- Trend indicates high IP activity during 2002 followed by sudden fall during 2003, since then recovering gradually



Assignee wise IP activity

### Assignee wise IP activity

- Graph depicts assignee and number of patents to their credit
- Assignees with less than 3 patent record is depicted in [TABLE](#)
- MITSUI SUMITOMO INSURANCE leading in IP activity race with 60 patents to its credit, followed by TOKIO MARINE & FIRE INSURANCE with 49 and AIOI INSURANCE with 23 patent records to their credit



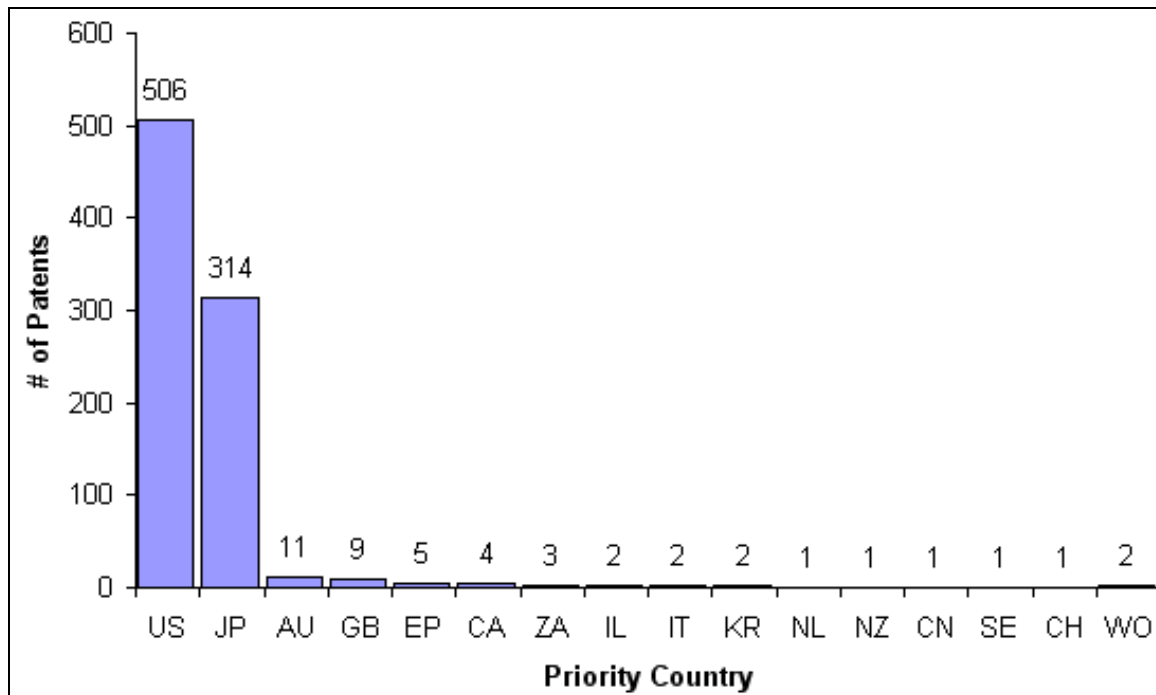
#### Assignee wise IP activity

**Note:** Below mentioned assignees patents added together and presented as one in above graph

- SUMITOMO LIFE INSURANCE and MITSUI SUMITOMO INSURANCE is presented as MITSUI SUMITOMO INSURANCE
- GE MORTGAGE HOLDINGS and GE FINANCIAL ASSURANCE HOLDING is presented as GE FINANCIAL ASSURANCE HOLDING
- NICHIDO FIRE & MARINE INSURANCE , TOKIO MARINE AND FIRE INSURANCE , TOKIO MARINE & NICHIDO LIFE INSURANCE , TOKIO MARINE & NICHIDO FIRE INSURANCE and TOKIO MARINE & FIRE INSURANCE is presented as TOKIO MARINE & FIRE INSURANCE
- NIPPONKOA INSURANCE , NIPPON ELECTRIC and NIPPON LIFE INSURANCE is presented as NIPPON LIFE INSURANCE

#### Country wise IP activity

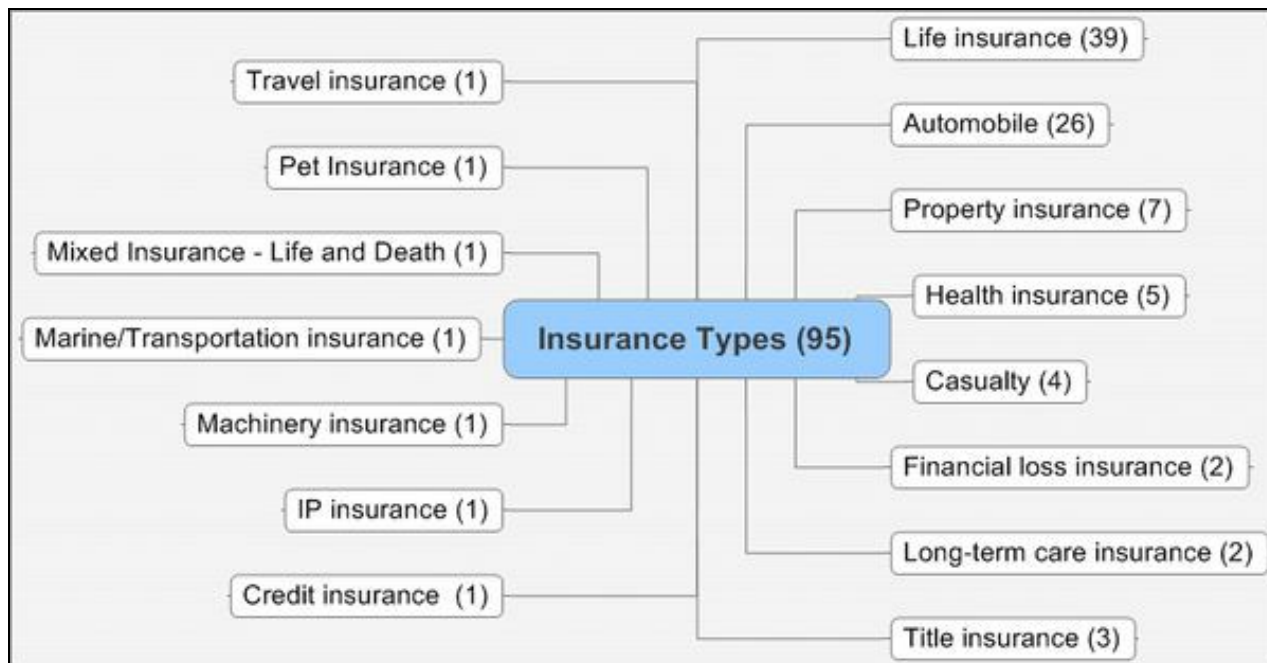
- Graph indicates IP activity based on priority country
- United States with 506 patent records is the most happening destination for insurance related IP activities followed by Japan (314) and Australia (9)
- [Country code](#)



Assignee wise IP activity

### Distribution of patents - Based on insurance type

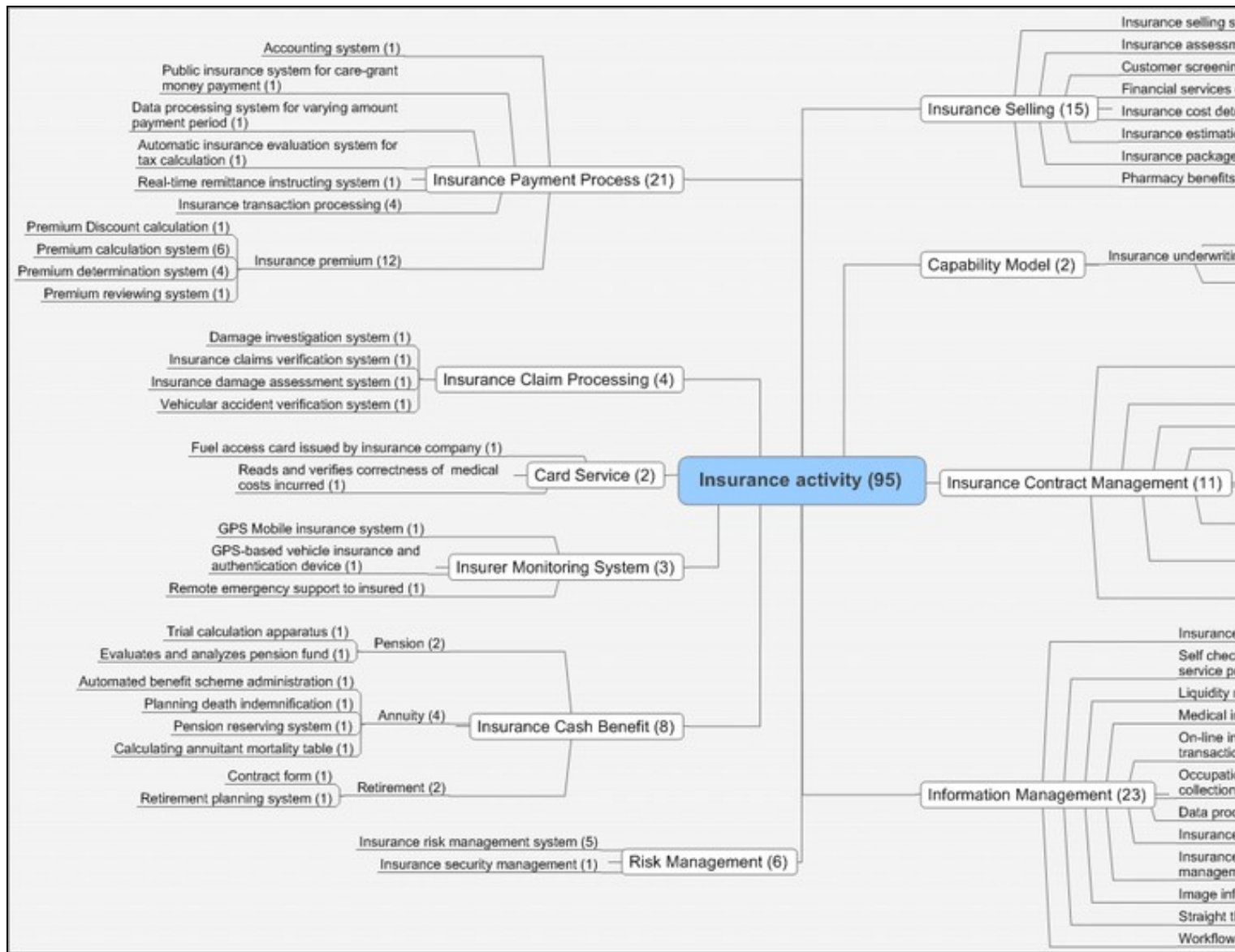
- 95 patents have been analyzed and categorized based on type of insurance
- For definitions follow the [link](#)
- Number in ( ) indicates # of patents
- **Trend - Top insurance filing sectors**
  - ♦ Maximum number of patents file under life insurance category (39) followed by
  - ♦ Automobile insurance (26) and
  - ♦ Property insurance (7)



Distribution of patents - Level-I Analysis

### Distribution of patents - Based on activity

- Above 95 patents further analyzed for more granularity to project various patterns involved
- **Trend based on various activities under insurance:**
  - ♦ Maximum patent filed on insurance information management system (23) followed by
  - ♦ Insurance payment process (21) and
  - ♦ Insurance selling system and various selling parameters (15)



## Distribution of patents - Level-II Analysis

### Overall Trend - Based on insurance sector and respective activities

#### Automobile Insurance

- Customize insurance policy and customized insurance premium for different cars and people
- Keeping uninsured from driving

#### Casualty insurance

- Automatic accident reporting system of an insured person

#### Health insurance

- Pharmacy benefits calculator ? selects a cost effective insurance plan form the group of plans

#### Life Insurance

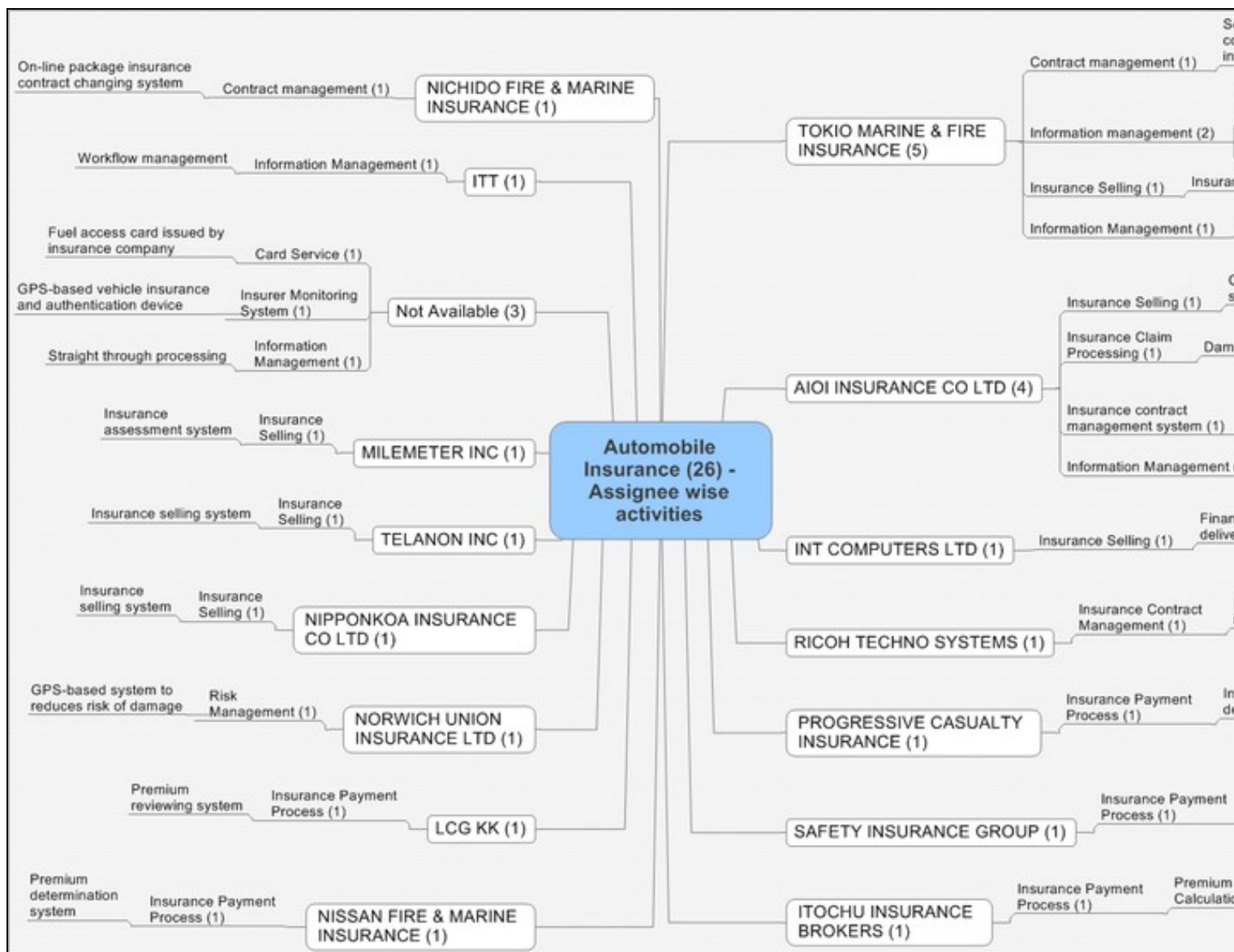
- Annuity ? Automated benefit scheme administration apparatus
- Package ? Selling other services (funeral plan) along with life insurance
- Retirement ? Computer based retirement planning and income arrangement system

#### Property insurance

- GPS Mobile insurance system ? Monitoring current location and condition

## Insurance type Vs assignee and their activities

#### Automobile insurance



Automobile insurance - Assignee wise patent distribution