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# **Intellectual Property and Investment Risk in Russia**

# Unique Russian characteristics

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- Russia executes wide, state sponsored IP collection.
- Low protection for both transaction counterparties and IP.
- Key industries controlled by few politically connected persons/groups.
- Foreign investors confront continued lack of transparency.
- Bribery and corruption remain endemic.
- Low bank disclosure, very low against global peers; lower than largest Russian nonfinancial firms.
- Rapidly changing laws and unclear limits on foreign investments increase unpredictability.
- Current economic issues will increase predatory attacks.
- Protective investigation is essential for any entry.

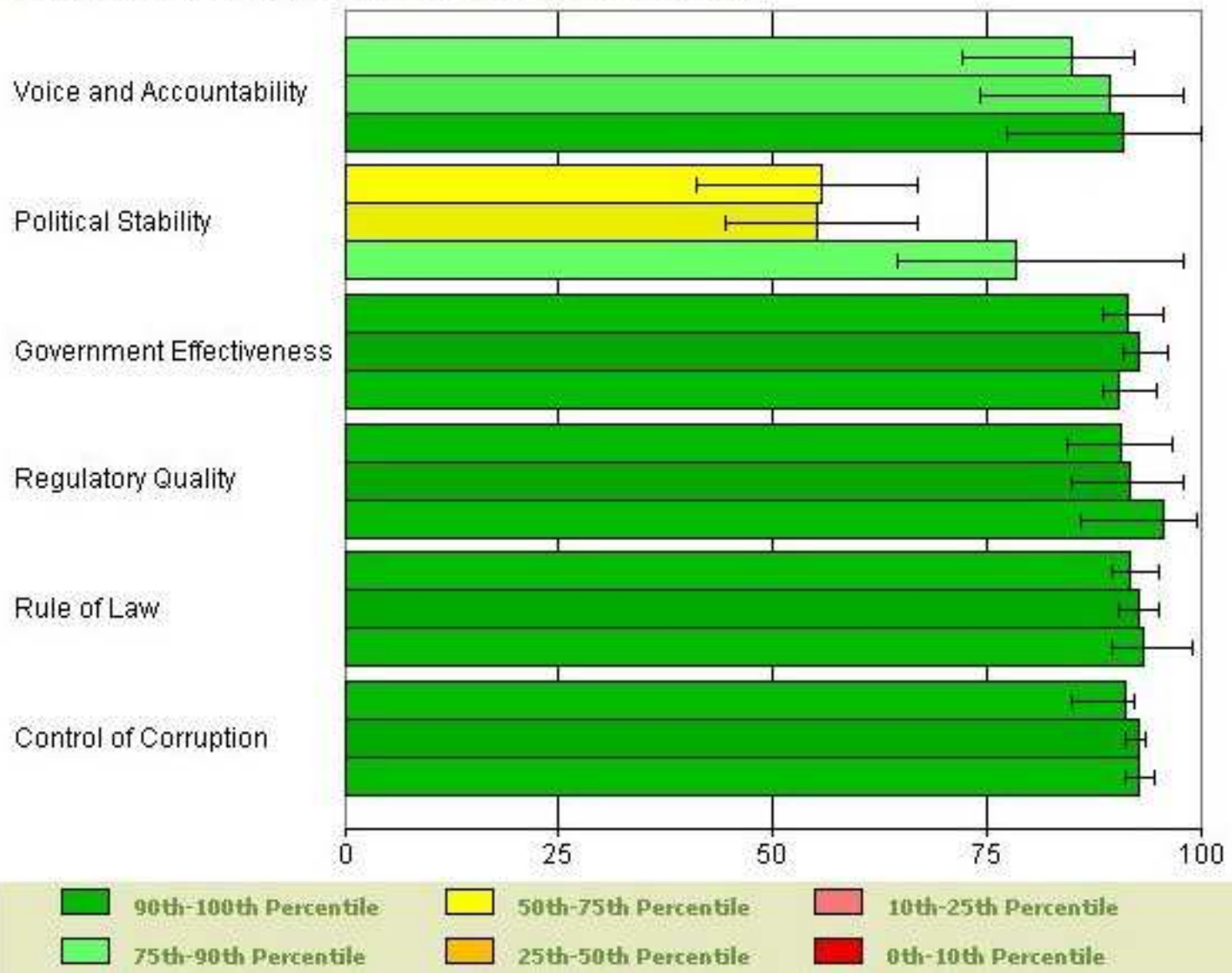
# Russian governance in global context

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- ❑ **Voice and Accountability:** Ability to select government, freedom of expression/association, and free media.
  - ❑ **Political Stability and Absence of Violence:** Likelihood of destabilization by unconstitutional or violent means.
  - ❑ **Government Effectiveness:** Quality of public services, capacity of civil service and its independence from political pressures.
  - ❑ **Regulatory Quality:** Ability of government to provide sound policies and regulations promoting private sector development.
  - ❑ **Rule of Law:** Extent of confidence in rules of society, including quality of contract enforcement, property rights, police, courts, and likelihood of crime and violence.
  - ❑ **Control of Corruption:** Exercise of public power for private gain, petty and grand forms of corruption, “capture” of the state by elites.
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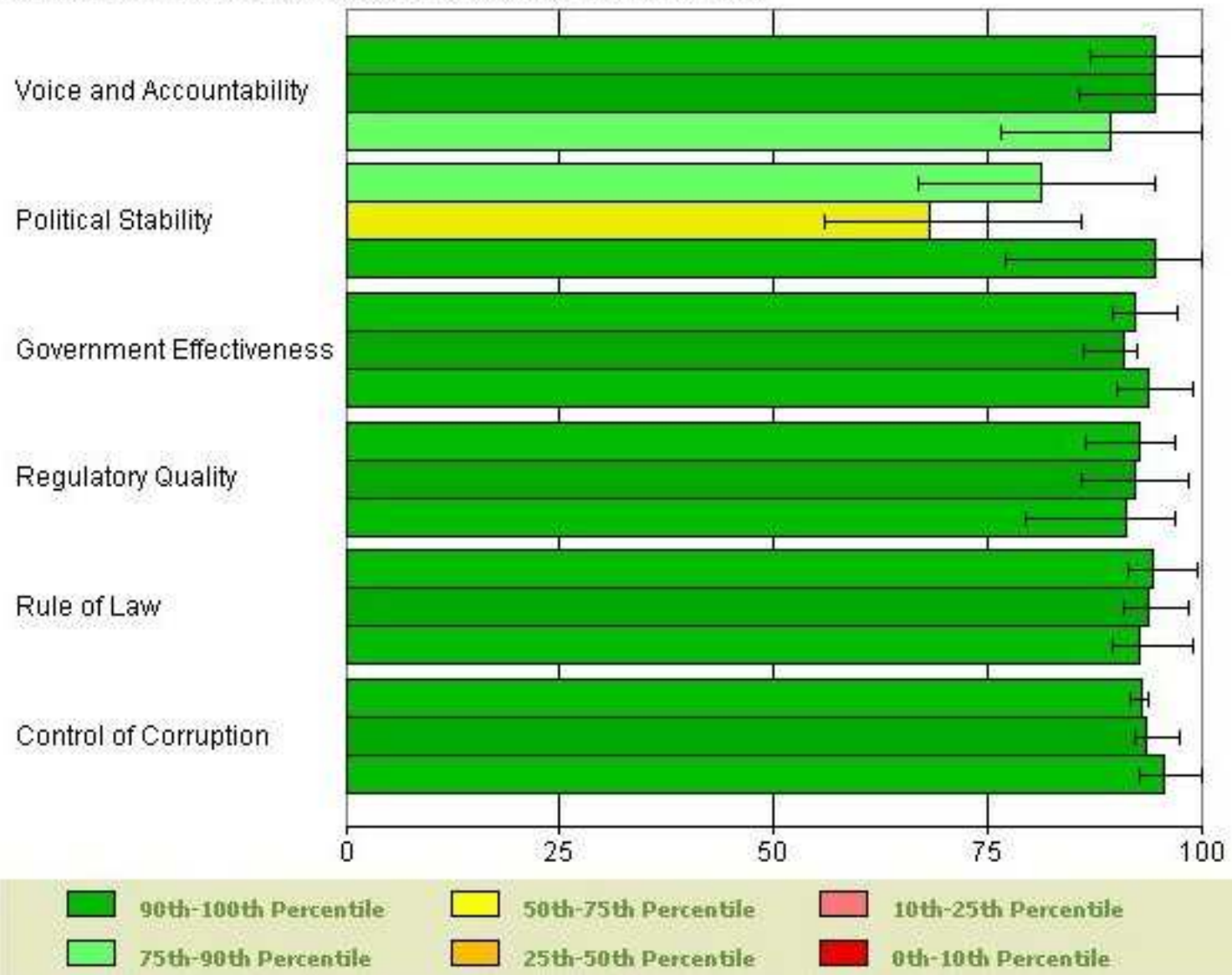
## UNITED STATES

Comparison between 2007, 2003, 1998 (top-bottom order)



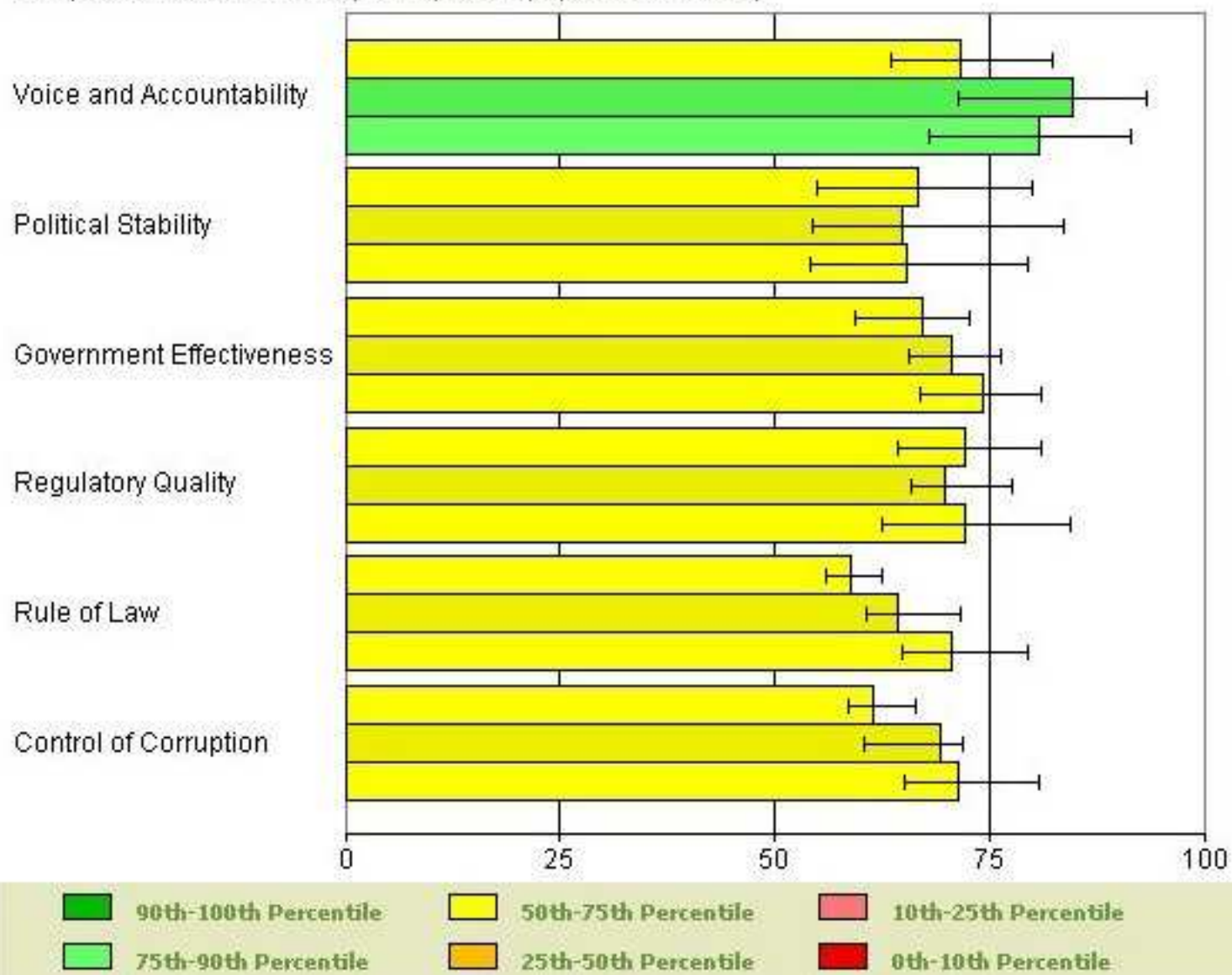
## GERMANY

Comparison between 2007, 2003, 1998 (top-bottom order)



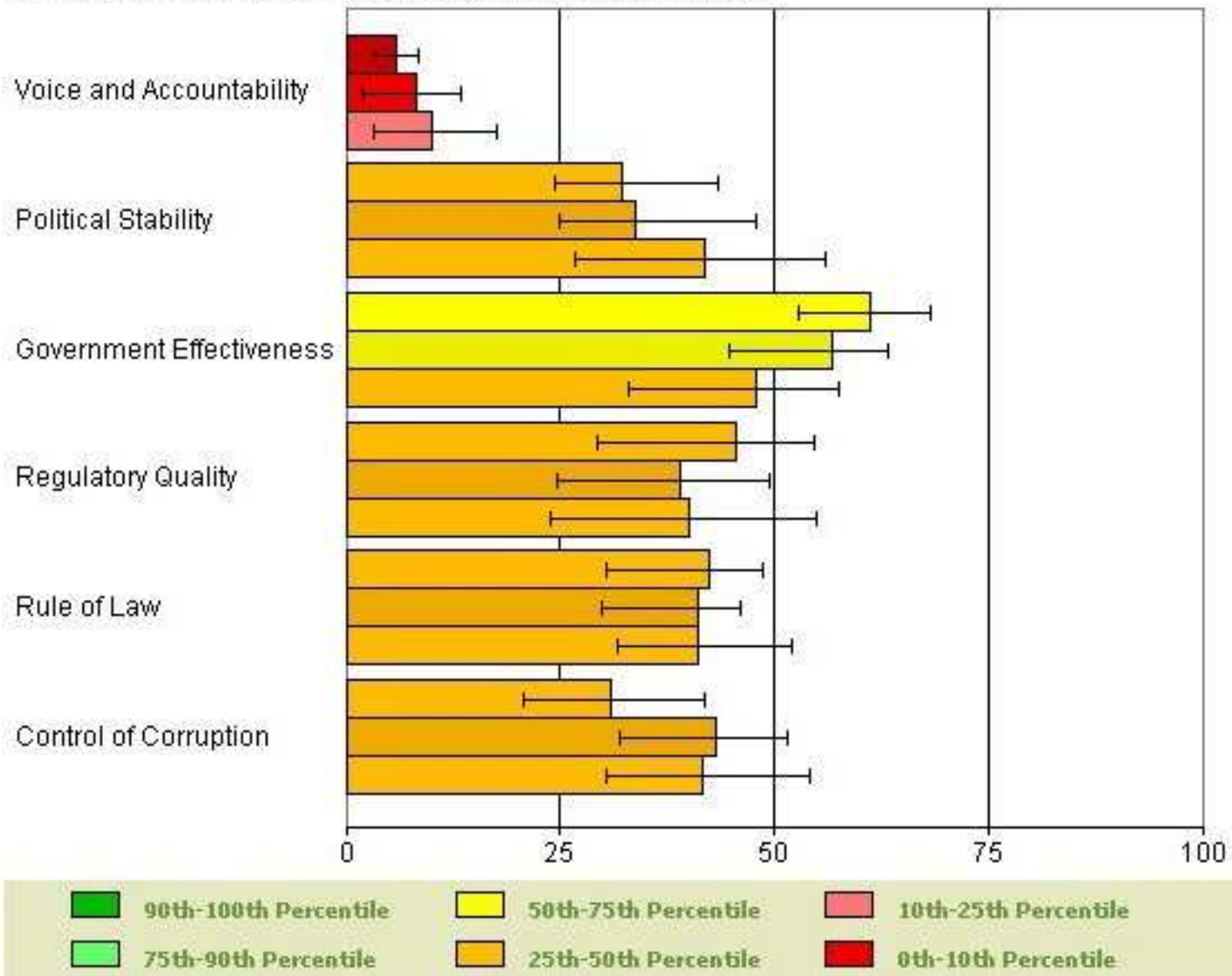
## POLAND

Comparison between 2007, 2003, 1998 (top-bottom order)



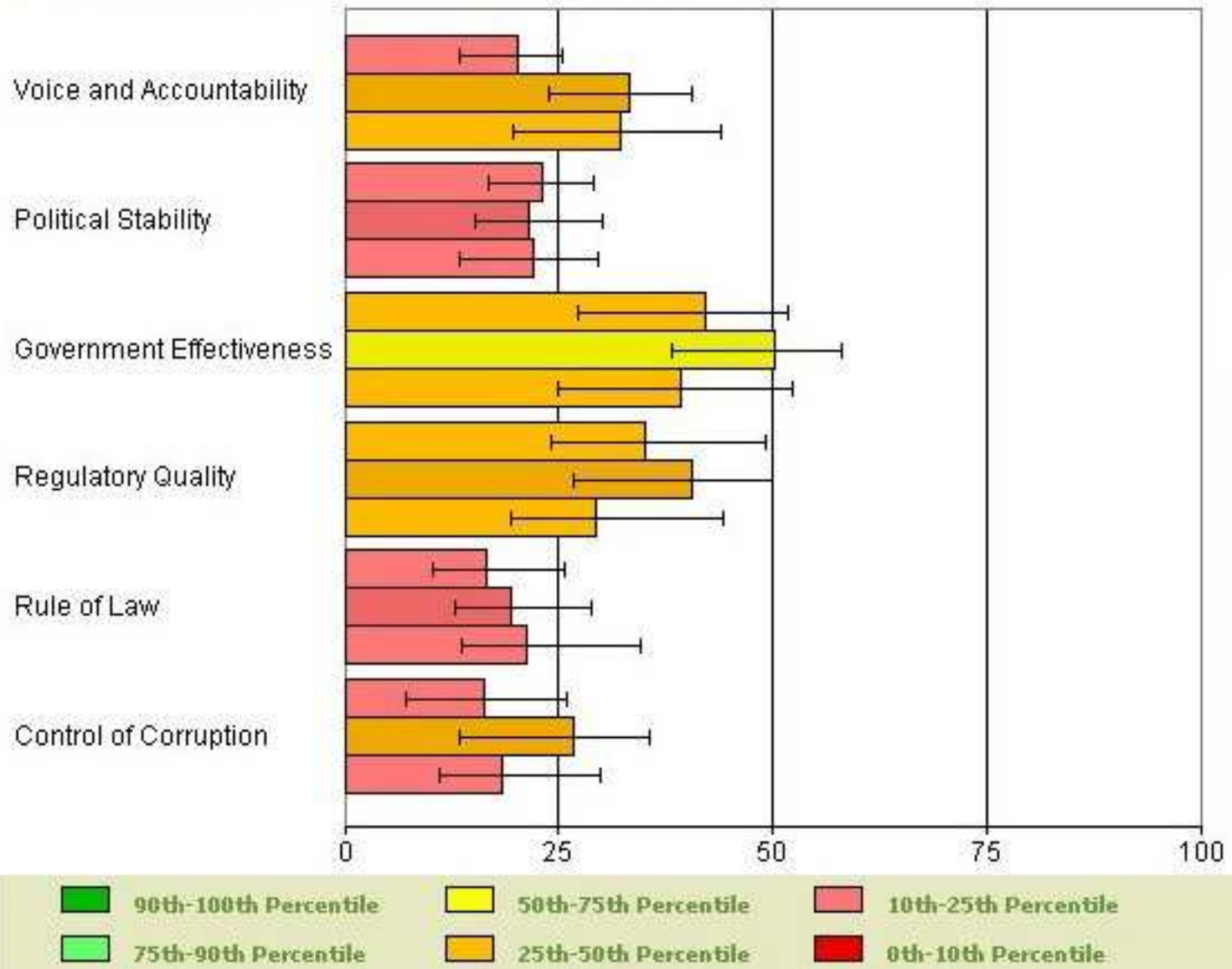
## CHINA

Comparison between 2007, 2003, 1998 (top-bottom order)



## RUSSIA

Comparison between 2007, 2003, 1998 (top-bottom order)





# More risk, less transparency, than China

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- ❑ Russia entails more risk than China with less transparency.
- ❑ Active state sponsored IP collection by multiple actors at multiple levels.
- ❑ Obsolete industrial infrastructure.
- ❑ Problematic supply chain consistency.
- ❑ Severe labor force issues, e.g., alcoholism, health issues.

# Independent raters contrast with invested consultancies

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- ❑ World Bank's Doing Business 2009 ranks Russia 120<sup>th</sup> of 181 economies in overall "Ease of Doing Business"
- ❑ Transparency International's 2008 Corruption Perceptions Index ranks Russia 147<sup>th</sup> of 180 countries.
- ❑ Transparency International's Bribe Payers Index for 2006 ranks Russia 28<sup>th</sup> of 30 countries.

## Independent raters, cont'd

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- ❑ World Economic Forum's 2008 Global Competitiveness Report ranks Russia 51<sup>th</sup> of 134 in the growth competitiveness index.
- ❑ MasterCard 2007 rating ranked Moscow 50<sup>th</sup> of 50 cities as desirable places to do business.

# Wide variance in commercial ratings

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- Different methodologies and target audiences.
  - Non-transparent (confidential) methodology.
  - Consider only publicly disclosed information.
  - Detection/flagging of manipulated data.
  - Conducted by market player.
  - Subjective internal analyses.
  - Rates only owned company shares.
  - Does not consider Russian market specifics.
  - Non-comprehensive sample set.
  - Analyzes only listed (“liquid share”) companies.
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# Putting Standard & Poor's in perspective

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- No dramatic improvement on disclosure despite rise in S & P transparency index.
- S & P upbeat picture due to studying transparency of largest companies, many of whom:
  - Have ADRs traded in the US.
  - Are registered in US, requiring US-level disclosure.
- Lesser, smaller firms have gaping information holes:
  - Information not disclosed for fear of state interference or unfriendly takeovers.
  - Disclosure purpose is search for strategic investors.

# Standard & Poor's 2002 Russian transparency findings

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- 42 Russian firms; total capitalization >90% of Russian stock market.
  - Average disclosure: 34% - less than Pacific Rim and developing Asian countries, comparable to Latin America.
    - Management remuneration information: 11%.
    - Only 26 prepare annual reports in accordance with international standards.
    - 24 of 42 firms disclosed 50% of performance information.
    - Strong correlation between capital raising and information disclosure.
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# Russian-US Cooptation

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- ❑ Cooptation - Cooperative competition
- ❑ Cooperation: Chechen insurgents, Islamic militants, DPRK, WMD materials.
- ❑ Competition: US/EU military and industrial secrets, Near Abroad, energy supply chains.
- ❑ Western espionage dipped 1989-1991, has not recovered operational levels.
- ❑ Soviet espionage dipped 1991-1993, has recovered operational levels.

# Russian versus Soviet intelligence collection

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- ❑ Operatives use more and varied covers.
- ❑ Morale near mid-1980s high.
- ❑ Diaspora created pool of co-optable, coercible émigrés.
- ❑ Restoration, even intensification, of activity in North America and Europe.
- ❑ Military technology 10 years behind US, now 25 years behind.
- ❑ Supply chain collection focus: Technology, components, operations, automation, assembly, manufacturing skills.



# Federal Security Service (FSB)

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- ❑ Successor to Committee for State Security (KGB).
- ❑ Estimate that 78% of top 1,000 political leaders worked with FSB or its predecessors.
- ❑ Vast network of former KGB/FSB officers permeates all sectors of Russian government and society.
- ❑ Acquired the Special Communications and Information Service – equivalent to the US NSA.
- ❑ Unlike US agencies, KGB/FSB collects and disseminates commercial intelligence.

# Foreign Intelligence Service (SVR)

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- ❑ Successor to former KGB First Directorate.
- ❑ Responsible for gathering of foreign intelligence through open and covert means.
- ❑ Structure comprises “lines” within geographical “directions” and separate task-specific directorates.
- ❑ Separate directorate dedicated to economic espionage and counterespionage.
- ❑ Separate directorates dedicated to specific countries, e.g., US and PRC.

# SVR economic intelligence activities

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- Threats to Russian interests.
- Emerging opportunities and market trends:
  - Scientific research, technologies, commodities and raw materials.
- Determine reputation and business potential of foreign firms and individuals intending to do business with Russian entities.
- Identify foreign firms attempting to conduct illegal activity with Russian partners.
- Track Russian capital going abroad.

# SVR and KGB leverage Russian nationals

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*“Virtually every successful private company in Russia is being used as a cover for Russian intelligence operations”*

- Russian nationals have little choice but to comply:
  - Russian entrepreneurs.
  - Russian nationals in-country.
  - Russian émigré communities abroad.
- Direct information sharing; response to tasking.
- Embedded operatives in legitimate firms.
- Front companies/shadow companies.

# Defining IP and its loss

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- ❑ Intellectual Property: Exclusive rights to the conversion of a unique application of people, capital, technology, and information into shareholder value.
- ❑ Intellectual Property Theft: Loss of exclusivity.

# Think asset, not country, in assessing IP risk

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- ❑ While certain assets are at risk in any country, the key is to think “asset” instead of “country.”
- ❑ Risk cannot be based on countries or “risky areas” but ***wherever a sufficiently valuable asset is accessible at any tier in any country*** - as the collector will move to the least defended point that contains the IP.
- ❑ We see collection efforts on US assets long before they are transferred offshore.
- ❑ Commercial and dual-use technologies are high on the collection list.
- ❑ “Country” is only part of integrated IP protection.

# Difficult to omit certain countries

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- ❑ Unworkable to isolate “risky countries” with respect to IP migration.
- ❑ Revenue loss and market share erosion when presence is withheld.
- ❑ Host nations demand you be there with competent products and technology in order to do business.
- ❑ Three key vulnerability areas in any country:
  - **Pricing model compromise** (supplier outsourcing, subcontracting, etc.)
  - **Data citadel attack** (R&D hives and data warehouses).
  - **Human resources** (HR) churn.

# Four tiered model of IP violation

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- ❑ “Piracy” is an imprecise term in describing the risks and impacts to Intellectual Property (IP):
    - ❑ **Simple piracy**
      - Copy with no effort to hide piracy - the audio/video model.
    - ❑ **Substitute product**
      - Pirated/stolen IP used to create a “no name” or “other name” product competing with legitimate offerings, usually on price.
    - ❑ **“Badged” substitute**
      - Pirated/stolen IP used to create products masquerading as legitimate offerings by legitimate supplier.
    - ❑ **Supplier substitution**
      - Original legitimate supplier is forced from the market, replaced by copier.
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# Global risk to both domestic and offshore facilities

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- ❑ Most firms don't know they're at risk.
- ❑ If they do become aware, they don't know where to turn for valid assistance.
- ❑ Deprived of competent advice, firms employ non-solutions that lull themselves into a false sense of security.
- ❑ Firms silently surrender, fearful of negative consequences to business continuity or souring relationships with a host government.
- ❑ A firm's management may not confront a threat despite awareness and even presence of internal champions for improved protection.

# Choose your advisors carefully

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- Management consultancies, banks, investment houses and law firms tend to share three characteristics:
  - Actionable IP protection guidelines are absent; in their place are ineffectual guidelines conferring false sense of security among clients.
  - IP often missing among key characteristics that offshoring clients are urged to address.
  - Fear of reprisal by host government refusing them business restrains level of advice offered to clients.

# Fiduciary implications

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- ❑ Firms that do not understand this landscape are ripe for IP harvesting and investment losses.
- ❑ Legal remedies largely ineffectual and rewards moot as the IP is already lost and all expected downstream revenue is attenuated.

# What doesn't work

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- ❑ PRTM surveyed global US automotive suppliers for 2006 SAE World, distilling supplier attempts at IP protection.
- ❑ None offer protection against even modest collection efforts. Even less effective against an Asian style method of collection.
- ❑ Commercial supply bases lack effective protection and whatever attempts are being made at a 'solution' to IP risk are only lulling the targets into a false sense of security.

# Misadventure Analysis

## *Choose components wisely*

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- ❑ Asset market value trends downward from high value to commodity. Value loss can be mitigated if mature IP is integrated into systems led by high value assets.
- ❑ Difficult to isolate newer assets from the older in the production of integrated systems.
- ❑ Damage from IP loss moves progressively up the value chain, to newer and more vital IP as collectors retask to acquire more valuable IP.
- ❑ Compromise of high value asset compromises lead asset, maturing and mature components in the system.
- ❑ When IP loss occurs, it is likely that discovery will show damage to the business is not isolated and broader than anticipated.

# Misadventure Analysis

## *Choose components wisely, 2*

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- ❑ No “build your own plant” option. Brownfield or Greenfield, owned or leased, someone else erects the building, installs HVAC, electricals, electronics and contracts security function and hires guards.
- ❑ Local option delivering protective control is feasible only with a complete IP asset protection program (including asset vulnerability assessments), and significant preparation in selecting and developing local supply chain relationships.

# Misadventure Analysis

## *Break up assemblies*

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- ❑ Location-specific IP protection is a partial approach that rarely, if ever, adds much protective value for a global asset.
  - ❑ Location-specific approaches often creates false sense of comfort on the protective side. Accessibility of the asset to hostile IP collectors at any tier, at any location, is key question.
  - ❑ Asset-specific protection is global, requiring comprehensive view of asset accessibility in the supply chain.
  - ❑ Becomes optimally effective on the basis of a complete asset (value chain) exposure assessment to be effective.
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# Misadventure Analysis

## *Select partners carefully*

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- ❑ Partnering merely shares risk of IP loss but does not control it.
- ❑ Partnering is not controlled and generates additional risk. (Note levels of IP transfer that already occur in any joint venture.)
- ❑ Education and a clear delineation of joint interests is usually required, but frequently hard to affect and enforce.
- ❑ Customers may not pre-disposed to cooperate with supplier IP protection efforts.



# Misadventure Analysis

## *Exploit all legal options*

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- ❑ Unfortunately, any legal remedies come after the economic damage is done or is underway, i.e., the ROI and revenue loss are unrecoverable.
- ❑ Legal remedies are ineffective outside the US, parts of the EU and Australia, and may in fact be damaging to the litigating party.
- ❑ Legal strategy may be useful for asset sales or portfolio management (disposition), and will likely be necessary part of US-based due-diligence for Sarbanes Oxley compliance.
- ❑ It will have limited deterrent value at best for clandestine IP asset collectors.

# Implementable, teachable, effective processes exist

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- ❑ Prudent, non-adversarial business practices to identify current exposure and to combat collection efforts.
- ❑ Achieve success with strategies drawn from proven Counterterrorism (CT) practices applied to IP, personnel and facility risk evaluation and remediation.
- ❑ Experience shows these processes can be taught and embedded as company best practices performed by its employees, not outside consultants.
- ❑ Properly done, protection becomes a crucial business attribute, like quality, lean manufacturing or robustness.

# What does work: Design Basis Threat

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- Design Basis Threat (DBT) works regardless of whether the threat is counterterrorism (CT) or Intellectual Property (IP) theft:
  - Asset Value Assessment.
  - Threat/Hazard Assessment.
  - Vulnerability Assessment.
  - Risk Assessment/Risk Management.
- DBT defines a coherent view of risk tolerance, and a response strategy that interdicts the adversary's preparation, surveillance and collection.
- Avoid use of scenario analysis (omissive, has no end or scope-like business risk statement to bound it).

# Defend, defer and deflect for IP, plants and personnel

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- ❑ Technologies migrate and threats emerge; firms assume risk by default in:
  - Not identifying what is already compromised or at risk.
  - Identifying what assets need to be protected.
  - Defining dollars and effort needed to realistically protect those assets - wherever they occur in the supply chain.
- ❑ If a collector obtains a critical IP asset, or an attacker targets a key facility, the owner's ROI justification can collapse along with its expected revenue stream.
- ❑ When the IP asset is the core of a system or subsystem that often contains more mature, less competitive technology, the entire system revenue stream truncates.

# Required actions for an SEC-regulated IP-dependent client

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- ❑ What is a corporate SEC-regulated IP-dependent client to do in the age of Sarbanes Oxley?
- ❑ Independently build up credible IP protection program:
  - IP-focused exposure or assessment program, especially for IP upon which future revenue depends.
  - Establish IP-driven carve-outs for business critical valuations.
  - Start with knowing what has been compromised; although painful it can staunch an IP hemorrhage and evolve into a tool for allocation of suitably-valued IP protective measures.

# Due diligence, compliance & business strategy support

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## □ Non-financial support:

- Third party valuation (undisclosed valuation-relevant issues).
- Investment/counterparties (factors that transfer risk).
- Exposures beyond contractual and financial risk management.
- Support requirements for governance and Foreign Corrupt Practices Act (FCPA).

## □ Business strategy:

- Actionable information about specific industries, markets, prospects, and counterparties.
  - Due diligence on indigenous staff, review development prospects in-country.
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# Intellectual Property and Outsourcing Risk in Russia

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