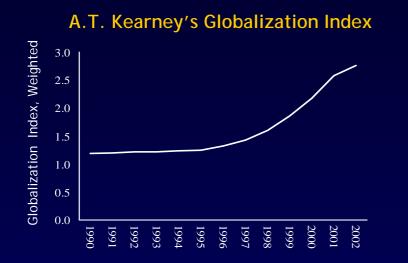


July 2005

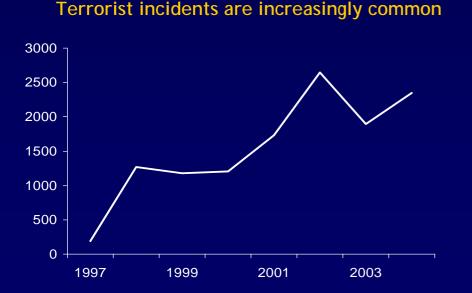


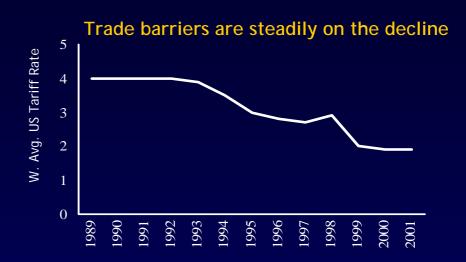


While the opportunities of globalization have grown



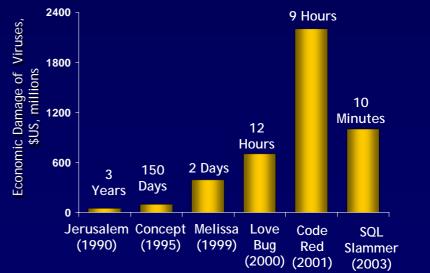
So have the risks



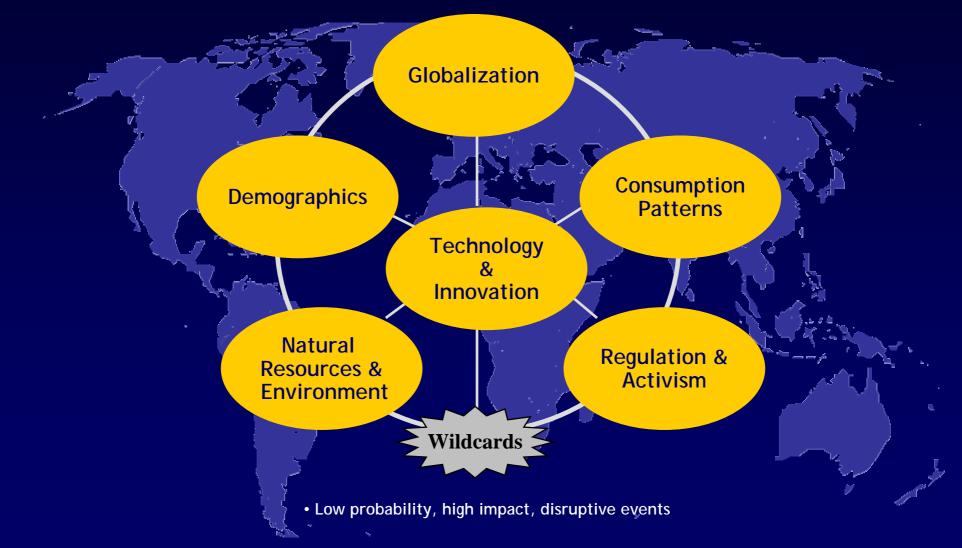


Computer viruses cause more damage in less time

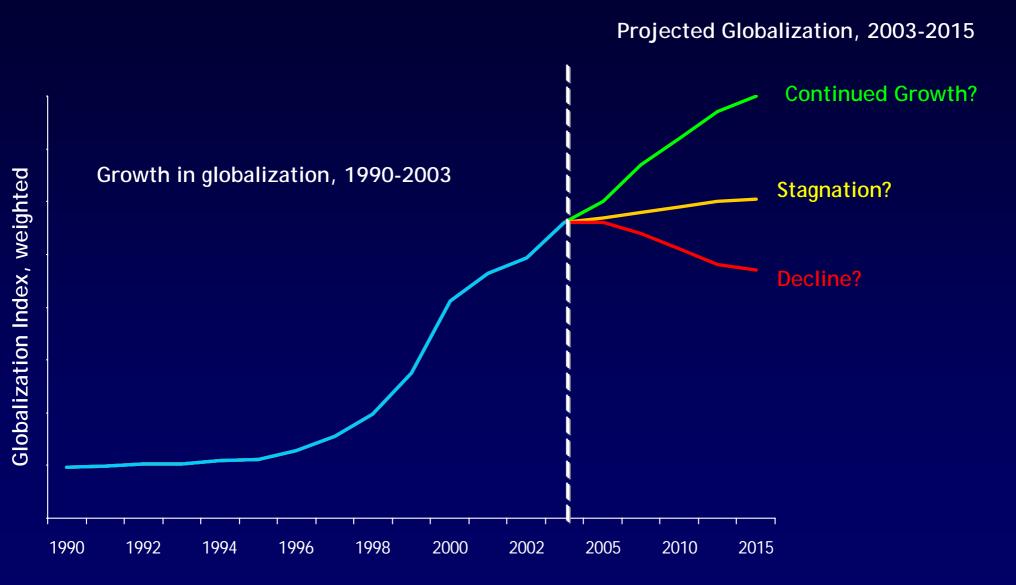
2



Successful companies must anticipate and manage change according to the key drivers of the global operating environment



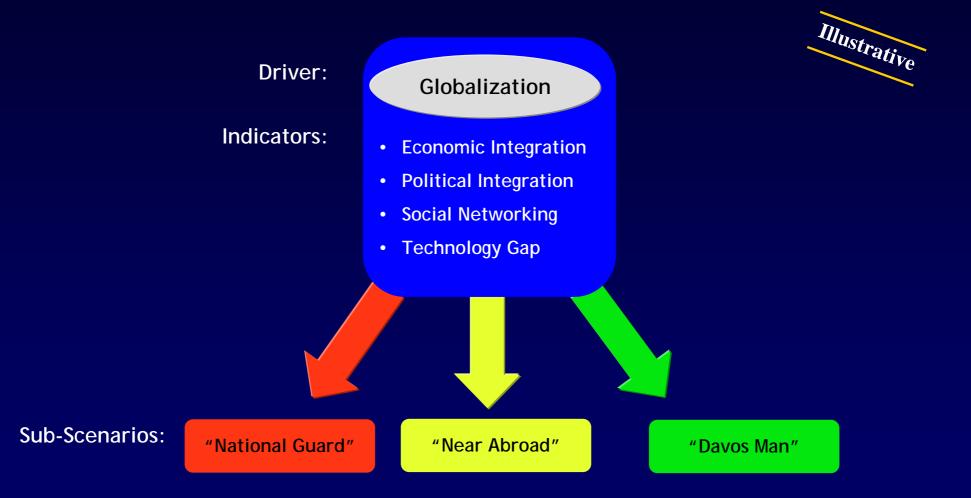




For each driver, we model the component parts



Scenarios are built from the ground up



Macro-Scenarios are developed from a combination of sub-scenarios and span the continuum of future possibilities

Generate Scenarios

Macro Drivers	Indicators	Sub-Scenarios	Scenarios
Globalization	 Economic Integration Political Integration Social Networking Technology Gap 	Continued Gap Slow Integration One Europe	1 Regional
Demographics	Growth and Distribution Wealth Accumulation	Street War Guarded Acceptance Home, Sweet Home	Polarity"

Management Uses Scenarios as Guidelines

- Prepare risk and action plans for the different scenarios
- Observe drivers and other "road signs" along the way
- Adopt scenarios and plans to changes in the environment
- Restructure business to changing environment

Illustrative

"Powerfully imagined and rigorously researched...scenarios are an indispensable guide to decision-making in an environment of new risks & opportunities"*

	Full-Spectrum Scenarios for the World in 2015			
Drivers	Castles and Moats	Patchwork World	Open Borders, Lingering	
	(Pessimistic)	(Baseline)	Fears (Optimistic)	
Globalization	National Guard:	Near Abroad:	Davos Man:	
	perceived external	globe settles in for long	world growth and	
	threats to security fuel	haul of low intensity	confidence continue as	
	nationalism	conflicts	does global integration	
Demographics	Urban Time Bomb:	Safety Valve:	Adaptive Labor Market:	
	young, poor populations	rich countries are "gated	intelligent immigration	
	combust while aging hits	communities" with limited	policies improves	
	West	immigration	prospects	
Consumption Patterns	Discount Warehouse: weak growth restrains middle class size in emerging countries	Multiplex: consumption spans a wide spectrum - standardization to customization	Affluent Individualism: world of savvy, sophisticated consumers	
Natural	Toxic Shock:	Search for Alternatives:	Abundance Renewed:	
Resources &	resource competition and	some regional instabilities	new reserves and	
Environment	regional conflicts	and ecological concerns	technologies come on line	
Regulation & Activism	New Dirigisme: populist governments and militant activists	Selective Re-regulation: "rational" government action & self-correction	Back to the 80s: forces of commerce and technology overpower restraint	

* John Gray, School Professor of European Thought, London School of Economics

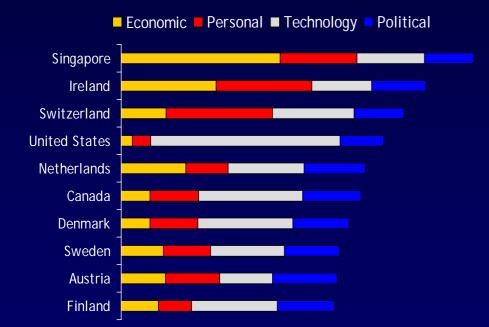
Introduction to Scenario Planning Overview of the Five Global Drivers

Scenarios & Wildcards Navigating Global Risks

- Globalization
- Demographics
- Consumption Patterns
- Natural Resources & the Environment
- Activism & Regulation

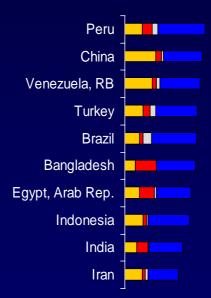
Globalized countries tend to be rich, free and open

2005 Globalization Index Top 10

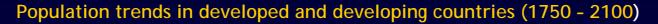


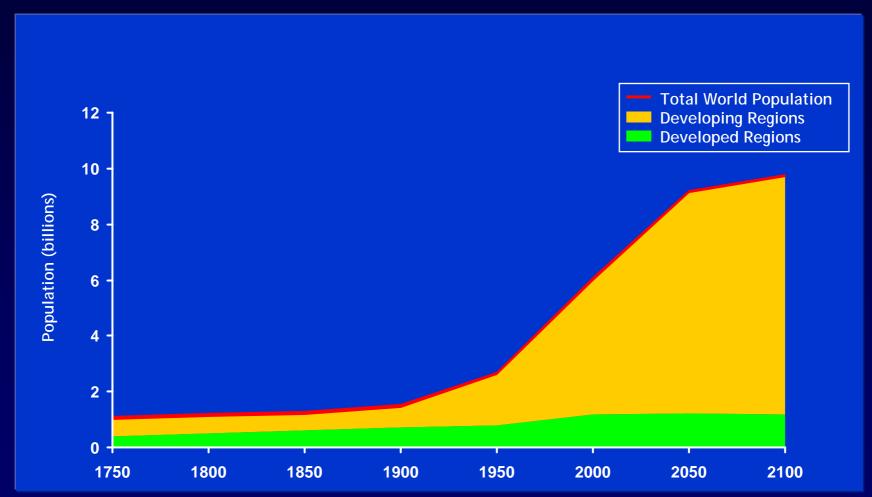
2005 Globalization Index Bottom 10

Economic Personal Technology Political

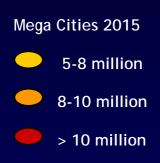


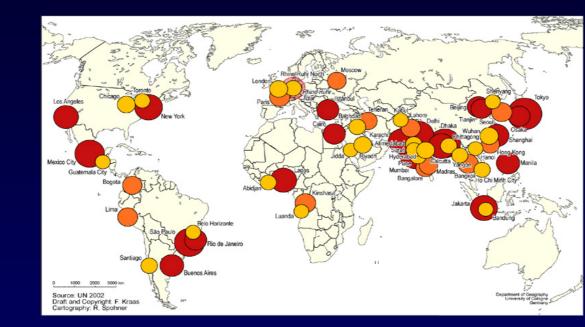
The developing world will comprise virtually all future population growth



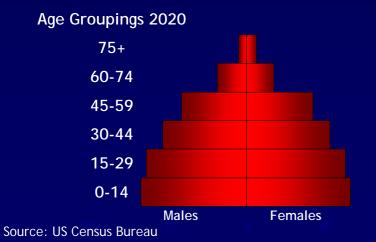


Developing countries will be urban and young

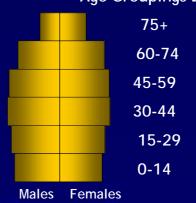




Developing countries in 2020 show a youth explosion...

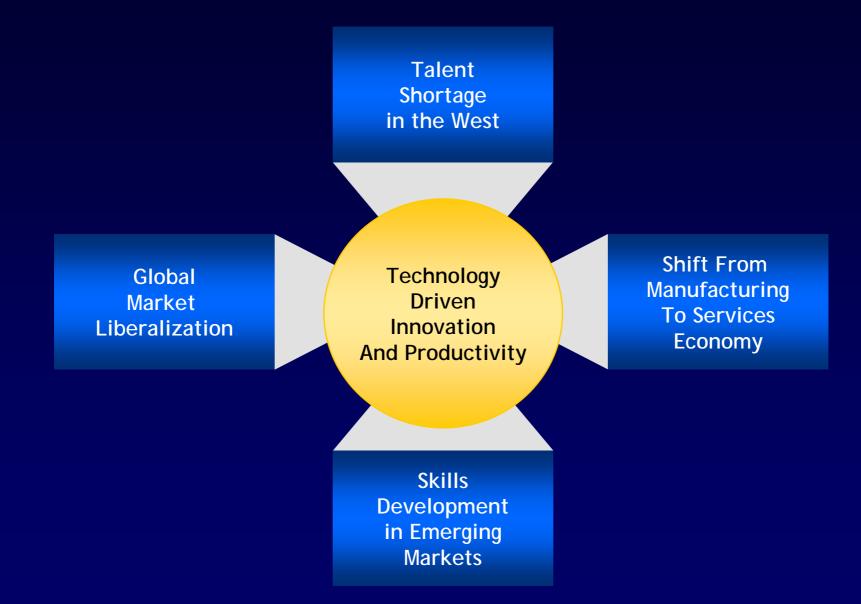


...while industrialized populations are aging rapidly



Age Groupings 2020

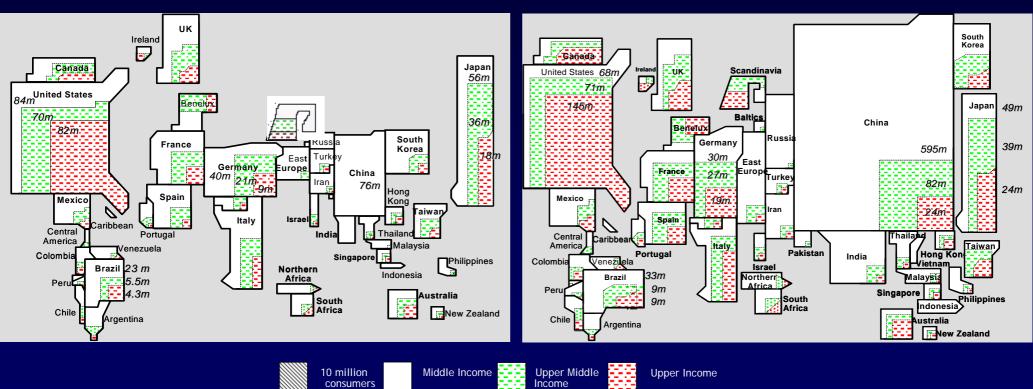
A convergence of forces is creating a new global market for talent



Middle class growth will be largely in the developing world

2000

2015



Source: World Bank, EIU, US Census Bureau and A.T. Kearney analysis

Consumption patterns are shifting

Advanced Markets: More *Experiences*

- High-end, luxury goods
- Custom features and add-on's
- Individualized leisure activities and entertainment options
- Travel and tourism
- Vacation homes
- Concern for health, longevity
- Growing ecological awareness

Emerging Markets: More *Stuff*

- Status-oriented merchandise
- Electronics
- Consumer durables
- New vehicles
- Housing



Local culture will also drive consumer preferences

	United States	English Canada	French Quebec
		*	* *
Time	Do it now	Wait	The past
Energy	Superman	Winter energy	Frustration
Space	The universe	The best place on earth	Shrinking or under siege
The Logic of Emotion	Life, liberty and the pursuit of happiness	Peace, order, and good government	Je me souviens or a sense of remembrance
The Body	A machine	An inconvenience	For pleasure
Food	A machine	Maintenance	Enjoyment
Eating	Fill up the tank	Keep life going	An orgy

Four key factors will drive future energy markets



Politics

- Development of situation in Iraq
- Central Asian regime stability
- OPEC cohesiveness



Technology

- Extractive technology
- New efficiencies
- Alternative energy technology



Economics

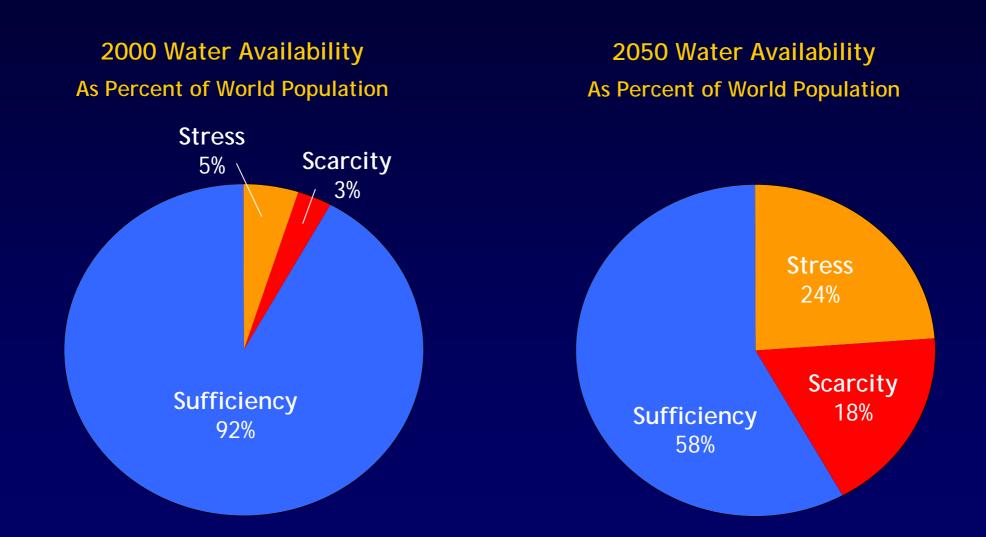
- Consolidation of oil markets and firms
- Asian economic development
- Central Asian macroeconomic stability



Environment

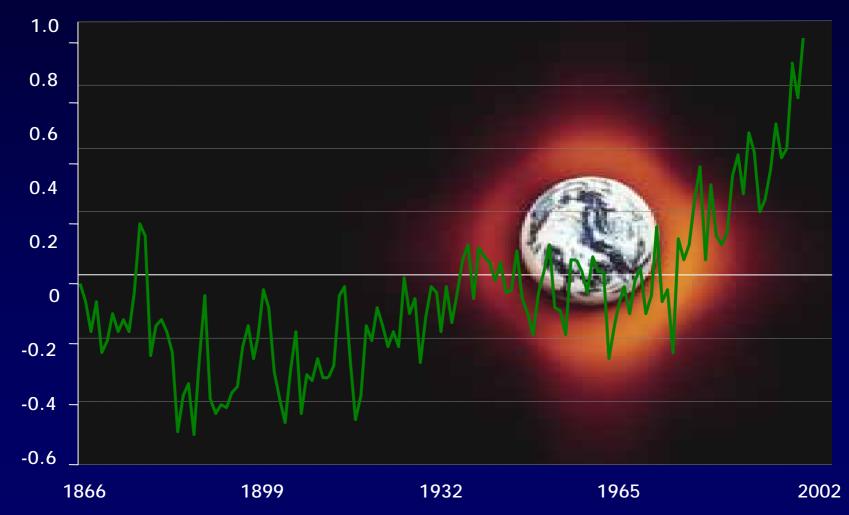
- Degree of observable climate change
- Availability of natural resources

The future will be increasingly characterized by concerns over water scarcity and water stress



The reality of global climate change is now universally acknowledged

Temperature Change, °C



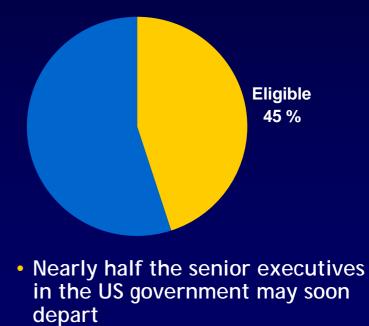
Complex regulatory issues challenge constrained governments...

Issues at the frontier

- Digital technology & privacy issues
- E-commerce
- Biotechnology
- Stem cell research and human cloning
- Genetic testing raises medical privacy concerns

U.S. Government "Brain Drain"

Public Sector Retirement Eligibility, 2005



...while empowered activists challenge corporate behavior

Transnational networking

- Low cost of global transportation and communication
- Decentralized organizations disseminate information rapidly and efficiently

Brand "boomerang" tactics



Brand image exploited by activists

Brand editing

 Profusion of brand names and identities allows activist groups to educate and instigate consumers







Each scenario has its own set of implications

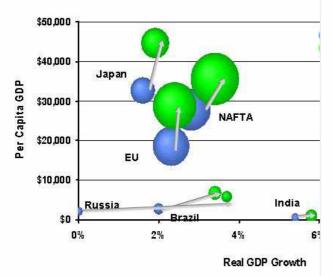
Implications under Open Borders, Lingering Fears

	Full-Spectrum Scenarios for the World in 2015			
Drivers	Castles and Moats	Patchwork World	Open Borders, Lingering Fears	
Globalization	Rise of localization	Bilateral half-measures	Homo economicus	
Demographics	Restless masses	Immigration queue	Global talent flow	
Consumption Patterns	Rice and beans	World bazaar	Hey, big spenders	
Natural Resources & Environment	Constrained energy	Necessary innovation	Fuel for growth	
Regulation & Activism	Big Brother is watching	Partial restraint	Chicago boys II	

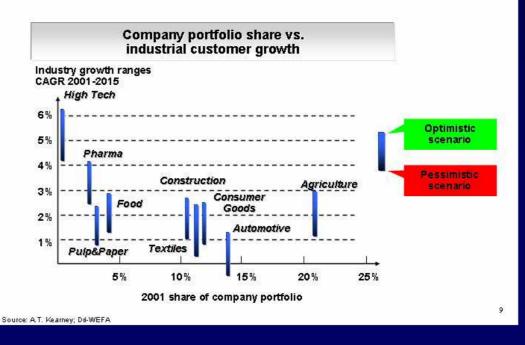
- The US and China are the dominant economic and political players on the world scene
- Increased trade and investment openness boost international business activity and technological innovation, but several thorny regulatory and governance issues remain.
- Rising affluence of consumers, with growing middle class in emerging markets
- Industrialized countries become more open to immigrant workers due to aging workforce

Insights derived from the scenarios can be quantified and driven down to the level of geographic markets and key customer industries

China will have the highest growth in the future, but Europe and North America will continue to have the most important markets by size



Note : For 2001, real GDP growth is for the previous 10 years. Russia's growth was actually -3.0^o Source: DRHVEFA, EIU The company's existing customer industries are expected to grow only moderately over the coming decade

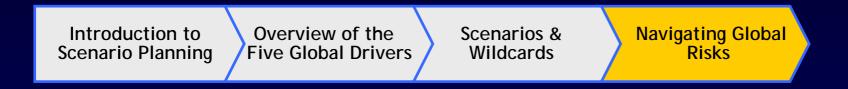


"Wildcards" must also be considered

Wild cards are low-probability, extremely high-impact events that:

- (1) directly affect the human condition;
- (2) are potentially disruptive (negatively or positively);
- (3) are intrinsically beyond the control of any institution, group or individual;
- (4) are rapidly moving





In this rapidly changing business world, corporations face an increasingly complex risk environment

Greatest risks impacting FDI decisions, 2004

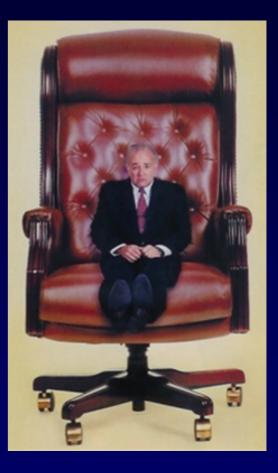
64% Government regulation/legal decisions 60% Country financial risk **Traditional Risks** 51% Currency/interest rate volatility 46% Political & social disturbances 30% Corporate governance issues 29% Absence of rule of law 28% Theft of intellectual property 26% Terrorist attacks **Emerging Risks** Security threats to employees/assets 26% Disruption of key supplier/customer/partner 23% 20% Product quality/safety problems IT disruption 19% 10% Employee fraud/sabotage Natural disasters 6% 5% Activist attacks on global/corporate brands

Source: A.T. Kearney Foreign Direct Confidence Index

S&P 500 Directors fear they are unable to properly assess emerging global risks and opportunities

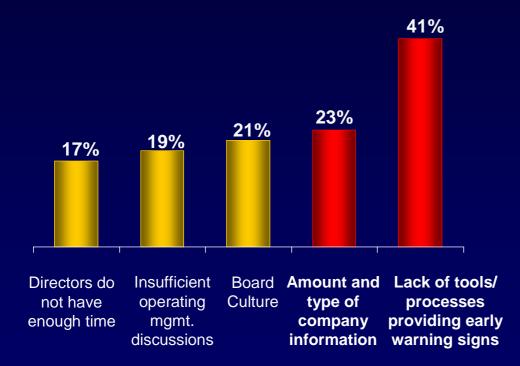
Percent S&P 500 Directors Rating Board as "Very Effective"

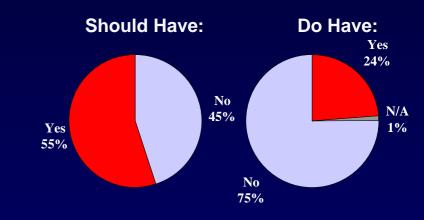




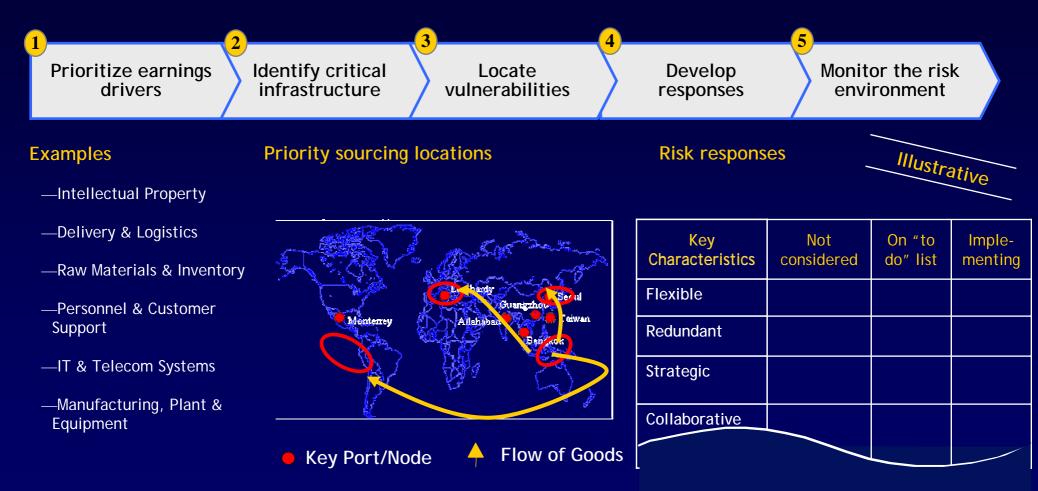
Lack of appropriate tools and objective information are seen as the biggest impediments to effective strategy and risk monitoring

What are the impediments to monitoring business performance? (% of directors ranking in top 3) Regular, independent, third-party reviews of governance practices:





Managing risk requires five key steps



A risk/response matrix should be agreed upon to define the responses required at each level of risk

Risk/response matrix for procurement/sourcing operations

<u>Risk Level*</u>	<u>Profitability</u> Impact	Action Required	<u>Accountability / Report Level</u>
Severe	High	 Operations in affected country to be stopped immediately 	 CEO and Executive Team
High	High	 Action plan for diverting operations to be created within 1 month 	CPOLegal, Financial Departments
Elevated	Moderate	 Explicit risk mitigation/diversification strategy to be created within 1 month 	 Procurement and Supply Chain leadership team
Guarded	Moderate	 Report on key risks to be submitted; validation of current strategy 	Regional Sourcing ManagersCategory Managers
Low	Moderate	 Regular risk monitoring 	 Risk audit core team

* Sample gradations; additional complexity can be incorporated in model, including probabilistic distribution, variability in risk assessment, etc.