#### University of Tourism and Business Studies (UTB)

#### Principles of Risk Management & Insurance

June – July 2016

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## Introduction

#### Fair Bet

- Cost Equals Expected Gain
- Cost = P \* (Amount you Win)
- Example: Flipping a Coin

– Amount You Win = \$20

## Is This A Fair Bet?

- Flipping A Coin
  - -Cost = \$50

- Amount You Win = \$75

# **Risk Taking Behavior**

- Risk-Averse
- Risk-Neutral
- Risk-Taker (Risk-Seeker, Risk-Lover)

# **Risk and Uncertainty**

- **Risk**: A situation in which several different outcomes are possible.
- Uncertainty: The perception that several different outcomes are possible.

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# Categorizing Risk

- Pure Risk v. Speculative Risk
- Diversifiable Risk v. Nondiversifiable Risk
- Fundamental Risks and Particular Risks

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#### Pure Risks v. Speculative Risks

- Speculative Risks are Usually Chosen
  - Stock Appreciation
  - Manufacturing and Selling a Product
- Pure Risks are Usually a Byproduct
  - Automobile Accident
  - Sports Injury

## Diversification

- Pooling Similar Risks
   INSURANCE
- Pooling Offsetting Risks

   A DIVERSIFIED PORTFOLIO



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# Why Reduce Uncertainty

- Individual
- Corporations
- Government

#### Why Manage Risk? Individuals

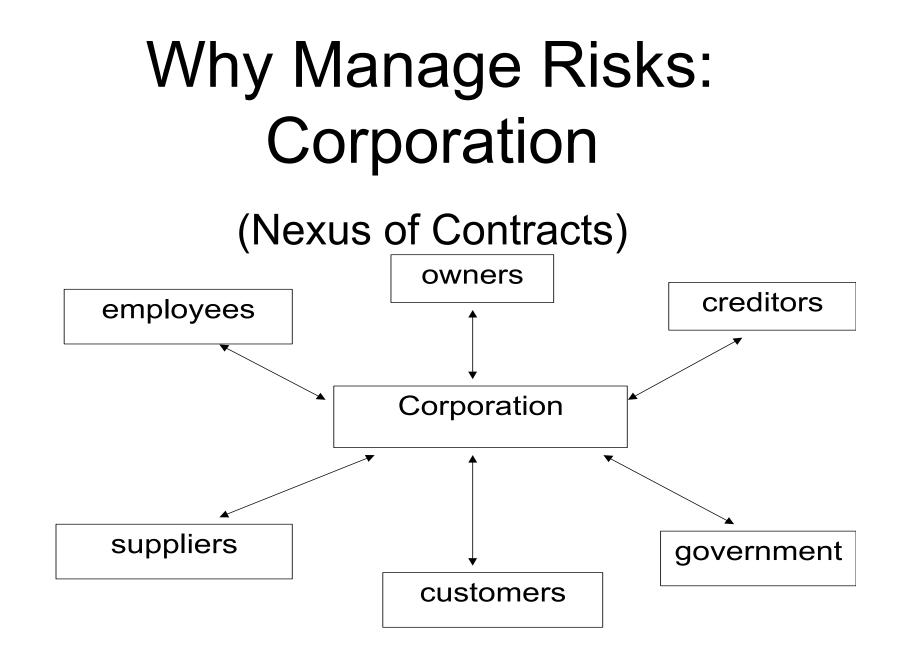
• Reduce anxiety



• Planning



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# Modern Risk Management

- Prior to 1950s: Insurance Purchaser
- Risk Managers
  - -Finance Dept., Freestanding, or Human Resource Dept.
  - -Larger Companies
  - -Companies Facing Greater Risk

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#### **Risk Manager:** Minimize Adverse Consequences of Risk

- Avoidance
- Loss Control
- Self-Insurance
- Purchase Insurance
- Anticipate Risk

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#### The Decision to Manufacture a Product



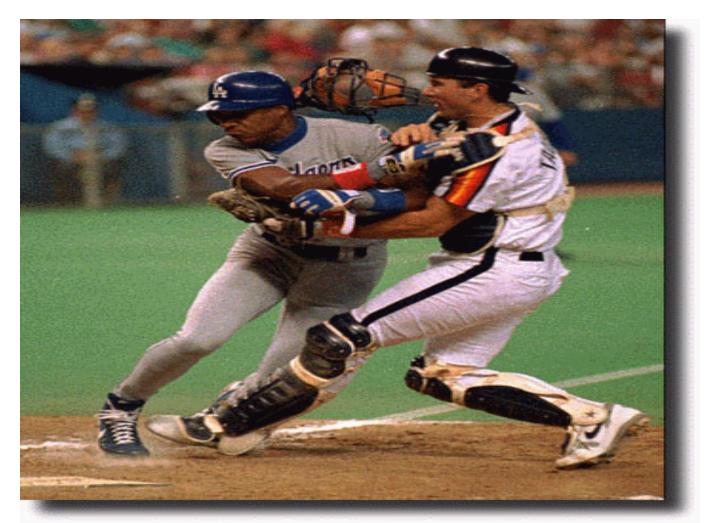
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#### Product Development: Motorcycle

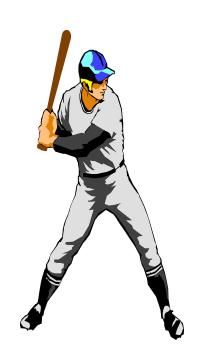
- Investment: \$1,000,000
- Profits if there is no Loss: \$150,000
- Possible Liability Losses:
  - 1% Chance of \$2,000,000
     Loss
- Required Return on
   Investment: 10%

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# Hiring an Employee



#### Hiring an Employee: Baseball Player with Drug Addiction



- Salary: \$200,000/year
- Financial Contribution to Club
  - -\$300,000 if Says Clean
  - -\$50,000 if Uses Drugs
  - Chance of Staying Clean: 50%

# Major Duties of Risk Managers

- Buy Insurance
- Identify Risk
- Loss Prevention and Loss Control
- Contract Review
- Safety Training and Education
- Govt. Compliance with Safety Issues
- Risk Finance
- Claims Mgmt. and Litigation Support
- Employee Benefits

## **Risk Management Process**

- Mission Identification
- Risk Identification
- Risk Analysis
- Consider Alternatives
  - -Risk Control
  - -Risk Finance
- Implement and Monitor

#### **Mission Identification**

Goal of Organization

 Goal of Risk Management Department

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## **Organization Goals**

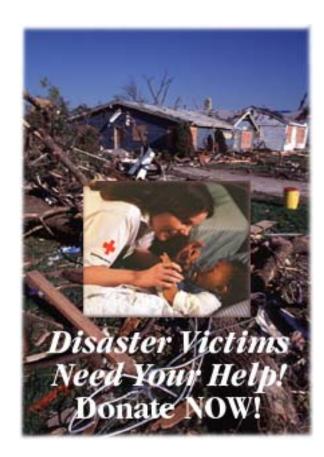
- Corporation: Maximize Profits
- Non-Profit Organizations
  - -Religious Organization
  - -Hospitals



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# **Organization Goals**

- Charities
  - Red Cross: The American Red Cross, a humanitarian organization led by volunteers, ... will provide relief to victims of disasters and help people prevent, prepare for, and respond to emergencies.



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# **Post-Loss Objectives**

- Survival of the Organization
- Continuity of Operations
- Earnings Stability
- Continued Growth
- Social Responsibility

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# **Pre-Loss Objectives**

- Economy
- Reduction in Anxiety
  - Owners
  - Suppliers
  - Lenders
  - Customers
  - Govt. Agencies
- Meeting Externally Imposed Obligations
- Social Responsibility

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#### Risk Management Process Step 2

#### **Risk Identification and Analysis**

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## **Risk Identification: Key Terms**

- Hazard
- Risk Factor
- Peril
- Exposure

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# Sources of Risk

- Physical Environment
- Social Environment
- Political Environment
- Legal Environment
- Operational Environment
- Economic Environment
- Cognitive Environment

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# Categories of Exposures

- Property Exposures
  - Direct: Immediate Result
  - Indirect: Secondary Results
  - Example: Robbery of a Store
- Liability Exposures
- Human Resource Exposures

#### **Risk Identification Methods 1**

- Insurance Survey
- Risk Analysis Questionnaires
- Financial Statement Analysis
- Flow Chart Method
- Systems Safety Techniques

#### **Risk Identification Methods 2**

- Interactions with External Resources
- Interactions with other Departments
- Past Losses
- On-Site Inspections

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### **Accident Causation**

Human Relations View

#### Engineering View

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## Loss Analysis Ratios

• Severity = \$Losses / # Losses

• Frequency = # Losses / # Exposures

• Expected Loss = \$ Losses/ # Exposures

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## **Ratios Example**

- Data
  - 1000 Restaurants
  - 50 Fires
    - Type 1 Fires: 20, \$25,000
    - Type 2 Fires: 30, \$50,000
- Severity = [20(\$25,000) + 30(\$50,000)]/50 = \$40,000
- Frequency = 50 / 1000 = .05
- **Expected Loss** = .05(\$40,000) = \$2000

#### Concerns with Measuring Severity

- Indirect Losses
  - -Ex: Store robbery
- Contagion
  - -Ex: Foot-and-Mouth Disease
- Snowball Effect

   Ex: Mad Cow Disease

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#### Loss Severity Measures

Maximum Possible Loss

Maximum Probable Loss

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# Importance of Timing of Losses

#### Time Value of Money

Cash Flow Considerations

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### Loss Triangles

Predict When Losses Will Occur

Predict Total Losses

#### • Highlight Trends

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# **Property Losses**



- Property Exposed to Loss
- Peril
- Financial Consequences

### **Property Exposed to Loss**

#### \*Real Property

#### \*Personal Property

#### \*Non-owned Property

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### **Non-owned Property**

- Bailed Property
- Leased Property
- Property on Consignment
- Employee's Property
- Property under Lien
- Agency Relationships
- Contingent Property



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### Perils

- Commonly Insured
- Government Insured
- Uninsurable

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# **Commonly Insured Perils 1**

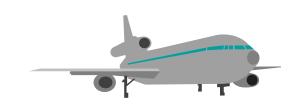
Fire

- Lightning
- Windstorm
- Hail
- Explosion
- Smoke



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# **Commonly Insured Perils 2**





- Aircraft & Vehicle Damage
- Riot
- Vandalism (Malicious Mischief)
- Falling Objects
- Weight of Snow, Ice, or Sleet
- Water Damage
- Glass Breakage
- Sprinkler Leakage
- Perils of Transportation
- Crime Perils

### **Difficult to Insure Perils**

- Earth Movement
- Floods
- Nuclear Reaction

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### Why Are Some Perils Uninsurable?



- Against Public Policy
- Under the Control of the Insured

   <u>Ex. Suicide</u>
- Probability of Loss is Too High
- Simultaneous Destruction

# **Generally Uninsurable Perils**

- War, Terrorism, Rebellion, and Insurrection
- Intentional Losses
- Fading, Rust, Dry Rot, Settling
- Production, Marketing, and Political Risks

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### **Financial Consequences**

- Reduction in Value
- Debris Removal
- Business Interruption
- Contingent Business Interruption
- Loss of Rental Income
- Loss of Rental Value
- Loss of Leasehold Interest
- Inability to Reconstruct Records
- Loss of Use Value in Improvements and Betterments
- Demolition Costs and Increased Cost of Reconstruction

### Valuation of a Loss

- Market Value
- Replacement Cost
- Actual Cash Value
  - (Replacement Cost Depreciation)
- Present Value of the Asset's Contribution



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### Actual Cash Value Calculation: Building

#### Purchase

- Date: January 1, 1987
- Price: \$1,000,000
- Expected Lifetime: 40 years



- Fire
  - Date: January 1, 2007
  - Replacement Cost: \$2,000,000

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### Actual Cash Value Calculation: Building

ACV = Replacement Cost - Depreciation
 *—As of the Time of Loss*

• ACV = \$1,000,000 = \$2,000,000 - \$1,000,000

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### **Liability Loss**

- Expenditure of TIME and MONEY
- Investigate, Negotiate, Defense, Payment





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#### Property Losses v. Liability Losses

Parties Involved

Measurement of Exposure

Changing Environment

• Tail

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# **Types of Legal Liability**

- Criminal
  - Agent
  - Punishments
  - Insurance
- Civil

# Private Duties Common Law, Statutes, Contracts

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### TORT

#### Wrongful Act or Omission

Independent of Contract

#### Legal Remedy: DAMAGES (\$\$\$)

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# **Types of TORTS**

Intentional Torts

Negligence

#### Strict Liability

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### Intentional TORTS

- Legally Protected Right
- Intentional Interference
  - Voluntary
  - Damages Reasonably Foreseen
  - No Valid Defense

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#### **Intentional Torts: Defamation**

- Types
  - Libel
  - Slander
- Plaintiff Must Show
  - False, Injurious Statement
  - Publication
  - Damages

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### Defenses

#### • Truth

- Privilege
  - Absolute
  - Qualified
    - No Malice
    - Not Known False
    - No Intent to Injure
    - Fair, if by news media
    - Covered Body

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#### Intentional Torts: Invasion of the Right of Privacy

- Examples
  - Release Confidential Information
  - Hidden Microphones
- Public Figures v. Private Figures

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#### Intentional Torts: Assault and Battery

- Assault
- Battery
- Defenses
  - Consent
  - Self-Defense
  - Defense of Property
  - Defense of Others
  - Allowed Discipline

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#### Intentional Torts: Assorted Others

- False Arrest and Wrongful Detention
- Malicious Prosecution
- Trespass
- Conversion
- Nuisance

### Intentional Torts: Assorted Others Continued

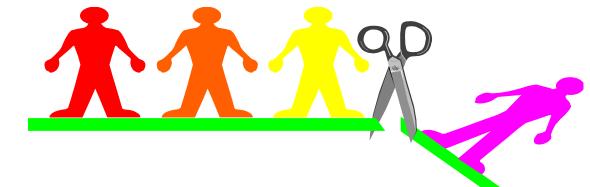
- Wrongful Interference with a Business Relationship
  - Copyright Infringement
  - Deception
- Bad Faith
  - Delaying Payment of ClaimsRefusing to Pay Claims

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# Negligence

Acts of Omission

Acts of Commission



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### **Elements of a Negligent Act**

- Legal Duty
- Breach

Damages



Proximate Cause

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### Damages

- Compensatory Damages
  - Special Damages
  - General Damages
- Punitive Damages

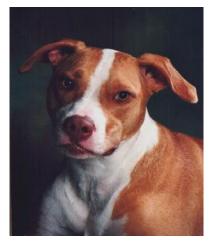


# **Defenses to Negligence**

- Contributory Negligence
- Comparative Negligence
- Assumption of Risk
- Statute of Limitations
- Immunities
  - Sovereign
  - Charitable Institutions
  - Public Officials

# **Strict Liability Torts**

- Abnormally Dangerous
   Instrumentalities
- Ultrahazardous Activities
- Dangerously Defective Products
- Workers Compensation Statutes
- Disability Benefit Statutes
- Aviation Law
- Dram Shop Laws
- Contractual Assumptions

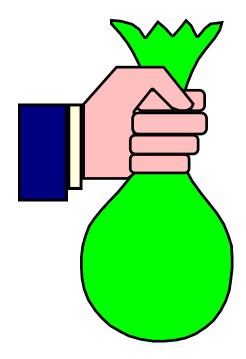


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### **Goals of the Tort System**

Compensate

Deter



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### **Tort Reform Proposals**

- Modify Joint and Several Liability
- Caps on Non-Economic Damages
- Caps on Punitive Damages

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# The Work Relationship

- Employer
  - Sets Hours
  - Defines and Supervises Work
- Employee
  - Sacrifices Time for Income
  - Is Told How to Work
  - Method of Payment Not Important to Status
- Independent Contractor
  - Not an Employee
  - Controls Methods of Work

### **Workplace Injuries**

- Common Law: Negligence
- Statutory Law: Workers
   Compensation



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#### America's Most Dangerous Jobs in 2004

Rank	Occupation	Death rate/100,000	Total deaths
1	Logging workers	92.4	85
2	Aircraft pilots	92.4	109
3	Fishers and fishing workers	86.4	38
4	Structural iron and steel workers	47.0	31
5	Refuse and recyclable material collectors	43.2	35
6	Farmers and ranchers	37.5	307
7	Roofers	34.9	94
8	Electrical power line installers/repairers	30.0	36
9	Driver/sales workers and truck drivers	27.6	905
10	Taxi drivers and chauffeurs	24.2	<b>67</b> 72

## Some Exceptions to Workers Compensation

Small Firms

Farm Workers

Domestic Workers

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# Employers' Common Law Duties

- Safe Place to Work
- Adequate Number of Competent Fellow Employees
- Provide Safe Tools and Equipment
- Warn of Inherent Dangers
- Make and Enforce Safety Rules

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# Workers Compensation

Accident

• Arising Out of and In the Course of Employment

#### Only Bodily Injury

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# Workers Compensation Benefits

Lost Wages

Medical Care

Body Part Payments



Death Benefits

Notes By Rwubahuka Jean Claude, MBA-IB, MSc. Fin.&Banking, BBA Fin. E: rwubahukajc@gmail.com, T: 0788427626,76 Website: www.de250.com Exceptions to WC as Sole Remedy for Workplace Injury

- Assault by the Employer
- Retaliatory Discharge of the Employee
- Dual Capacity Doctrine
- Suits by 3rd Parties
  - Ex. Loss of Consortium
  - Ex. Consequential Injuries
- Property Damage

## Human Resource Exposures

Loss of Personnel

Cost of Employee Benefits

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# **Employee Benefits**

- Attract Workers
- Retain Workers
- Retire Workers

#### Encourage Productivity

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# Loss of Personnel

Premature Death

Disability/Poor Health

Resign

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# Premature Death Losses that Result

Loss of Human Life Value

End of Life Expenses

Emotional Grief of Survivors

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# Premature Death Risk Management Strategies

- Loss Prevention:
  - Medical Care
  - Good Health
- Life Insurance: Many are Underinsured
- Pension Plan
- Earnings of Surviving Spouse

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# **Disability Problem**

- Disability is comparatively frequent
- Disability can be extremely costly
- Most lost income due to disability is not replaced
- Disability insurance is confusing
  - Multiple definitions of disability
- Disability insurance is subject to moral hazard
  - Malingering

# **Risk Control**

- Avoidance
- Prevention
- Reduction
- Information Management
- Some Risk Transfers

## **Risk Avoidance**

Proactive Avoidance

Abandonment

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## Drawbacks to Avoidance

- Lost Benefits of Risk
- Perhaps not Possible
   \$ Government Imposed Risks
   \$ Nature of the Risk
- May Result in Worse Risks

Notes By Rwubahuka Jean Claude, MBA-IB, MSc. Fin.&Banking, BBA Fin. E: rwubahukajc@gmail.com, T: 0788427626,86 Website: www.de250.com Important Forms of Loss Reduction

- Salvage
- Subrogation
- Litigation Management
- Catastrophe (or Contingency) Plans
- Duplication
- Separation

## Information Management as Loss Control

- Customers: Enhanced Sales
- Creditors: Lower Debt Cost
- Suppliers: Better Relationships
- Owners: Greater Market Value

# **Risk Transfer**

Property or Activity Transferred

 Contractually Pass the Liability "Exculpatory Contracts"

Notes By Rwubahuka Jean Claude, MBA-IB, MSc. Fin.&Banking, BBA Fin. E: rwubahukajc@gmail.com, T: 0788427626,89 Website: www.de250.com Government and Risk Control

Public Interest

Efficiency

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### Risk Financing: General Methods

#### Retention

• Transfer

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# **Risk Financing: Timing**

Contemporaneous

Prospective

Retrospective

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#### Approaches to Retention

#### Passive or Unplanned

#### Active or Planned

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#### **Retention: Funding Arrangements**

- No Advance Funding
- Liability or Earmarked Accounts
- Earmarked Asset Accounts
- Captive Insurer

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# **Types of Transfers**

• Insurance

Noninsurance Transfers

#### Hedging

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## **Elements of Insurance**

- Contract
- Premium
- Conditional Benefits

#### Pooling of Resources

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# **Insurance Transaction**

- Buyer Side of the Market
  - Risk Managers
  - Brokers
  - Consultants
- Supplier Side of the Market
  - Insurance Company
    - Underwriters, Claims Adjusters, Agent, Actuaries
  - Agent



# Noninsurance Transfers

 Do Not Satisfy Conditions to be Insurance

Provide External Funding

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# Hedging

- Taking an Offsetting Risk
- Not Possible for Many Types of Risks

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# Hedging Example

#### January 1: Arrange to sell chairs for \$5.00 Raw materials today cost \$2.50/chair

- June 1: Build chairs
- July 1: Deliver chairs

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# Hedging Example

#### Risk: Cost of raw materials

#### Options:

I. Sell chairs on a cost + basis
Buy and hold raw materials
Buy and have seller hold raw materials
Use a hedge

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# Retention vs. Transfer

- Ability to Bear the Loss
- Cost and Effectiveness of a Transfer
- Degree of Control over the Risk
- Insurance Loading Fees
- Additional Insurer Services
- Insurance as a Signal
- Opportunity Costs
- Taxes

## Requirements of an Insurable Risk

- 1. Large Number of Homogenous Exposure Units
- 2. Accidental
- 3. Determinable and Measurable
- 4. No Simultaneous Destruction
- 5. Probability Calculable and Not Too High

suicide, space shuttle, mental illness, war,
early flight and computers, terminally ill

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# Social and Economic Value of Insurance

- Stability
- Indemnification
- Reduction in Reserve Funds
- Insurers' Ability to Invest
- Satisfies Financial Requirements
- Specialization in Loss Prevention

## Social Costs of Insurance

Insurers' Operating Costs

Moral Hazard

Exaggeration of Losses

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# **Cheating with Insurance**

- Insurer
  - Failure to Honor the Contract
  - Misleading Contracts
  - False Advertising
  - Inappropriate Sales
- Insured
   Fraud

# **Controlling Cheating**

- Litigation
- Regulation

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#### Litigation Requirements of an Insurable Contract

- Offer and Acceptance
- Consideration
- Competent Parties
- Legal Purpose

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#### Litigation Legal Principles: Indemnity

- Valuation
  - Property
  - Liability: Actual Damages
- Apparent Exceptions
  - Valued Policies
  - Replacement Cost Insurance
  - Life Insurance

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### Litigation Principle of Subrogation

#### Prevents Double Indemnification

Holds Down Insurance Costs

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## Litigation Principle of Utmost Good Faith

- Representations
- Concealment
- Warranty

#### Is It Material?

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# Why Is Insurance Regulated?

Advance Payment of Premiums

Complexity of Transaction

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# Types of Regulation

- Licensing
- Solvency
- Rate Approval
- Agents' Activities
- Insurance Contracts

# Insolvency: Major Reasons

- Bad Management
- Poor Underwriting
- Inadequate Reserves
- Bad Investing
- Inattentive to Loss Prevention
- Competitive Pressures

# Danger of Insolvency

- Most Insurers are Very Solid
- 100+ Years
  - 71 Life Insurers
  - 200 Property and Liability Insurers
- Guaranty Funds
- Buyout of Failing Firms

## **Premium Regulation**

Adequate

• Fair

#### Reasonable

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## Methods of Rate Regulation

Prior Approval

File and Use

Open Competition

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## Advantages of Open Competition

- Flexibility
- Increased Availability of Insurance
- Avoid Political Fights
- Frees Time of Regulators

Notes By Rwubahuka Jean Claude, MBA-IB, MSc. Fin.&Banking, BBA Fin. E: rwubahukajc@gmail.com, T: 0788427626118 Website: www.de250.com Disadvantages of Open Competition

- Price Gouging (?)
- Risk of Insolvency (?)

• Fair (?)

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## Regulation of Agents' Activities

Licensing

- Prohibited Acts
  - Twisting
  - Rebating

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## Causes of Insurance Market Failure

- Adverse Selection
- Individuals Underestimate the Loss Potential
- Insurance Costs Too Much
- Pooling Not Possible
- Insurers Can Not Estimate the Loss Potential

#### THE END



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