

課題探求科目/特別講義

2019.09.24

Risk Management①

危機管理論①

Introduction

Various aspects of risk and crisis in our society

現代社会における危機の諸相

Prof. Fumiaki Yasukawa

担当：安川文朗

BIO of teacher in charge



FUMIAKI(FUMI) YASUKAWA, PhD

Professor of Health Management

Received Master in economics from Kyoto Univ. in 1993

Received PhD in economics from Kyoto Univ. in 2004

Specialties : Health Economics and Policy
Risk Management

Prof. Yasukawa had learned his basic idea of economics in Kyoto,
and his basic idea of risk science in Harvard School of Public Health



Books : *Economic Analysis of Medical Safety* in 2004

Text book of Risk and Crisis Management in Healthcare in 2010

Conflict Management and Modern Society (edit.) in 2014

Introduction

What is a risk ?

リスクとは何か、危機的状況とは何か

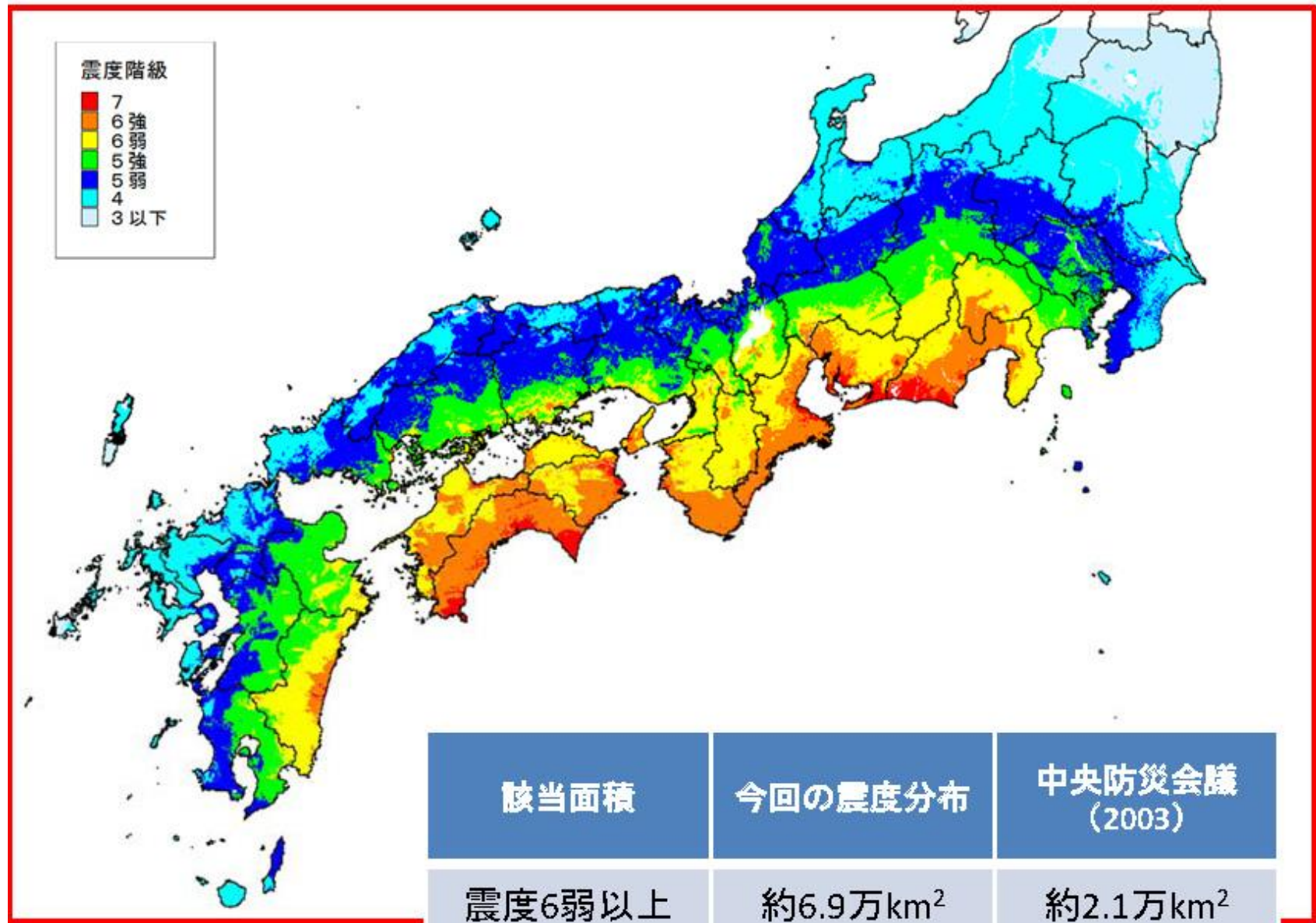
List what you imagine when you hear about the word “Risk” or “Risky situation” as many as possible.

あなたが「危機」あるいは「危機的状況」という言葉から連想する事柄を、できるだけ多く挙げなさい

東海・東南海・南海地震

M9 ~ M9.1 (津波断層域)

- 死者最悪32万3千人 -



該当面積	今回の震度分布	中央防災会議 (2003)
震度6弱以上	約6.9万km ²	約2.1万km ²
震度6強以上	約2.8万km ²	約0.5万km ²
震度7	約0.7万km ²	約0.03万km ²



報告された 感染者数 / 死者数

(2015年2月10日現在)

合計:23034 / 9268 (40.2 %) 出典 www.47news.jp



> : 運転状況
 🔍 : モニタリング情報



日本原子力技術協会HPより

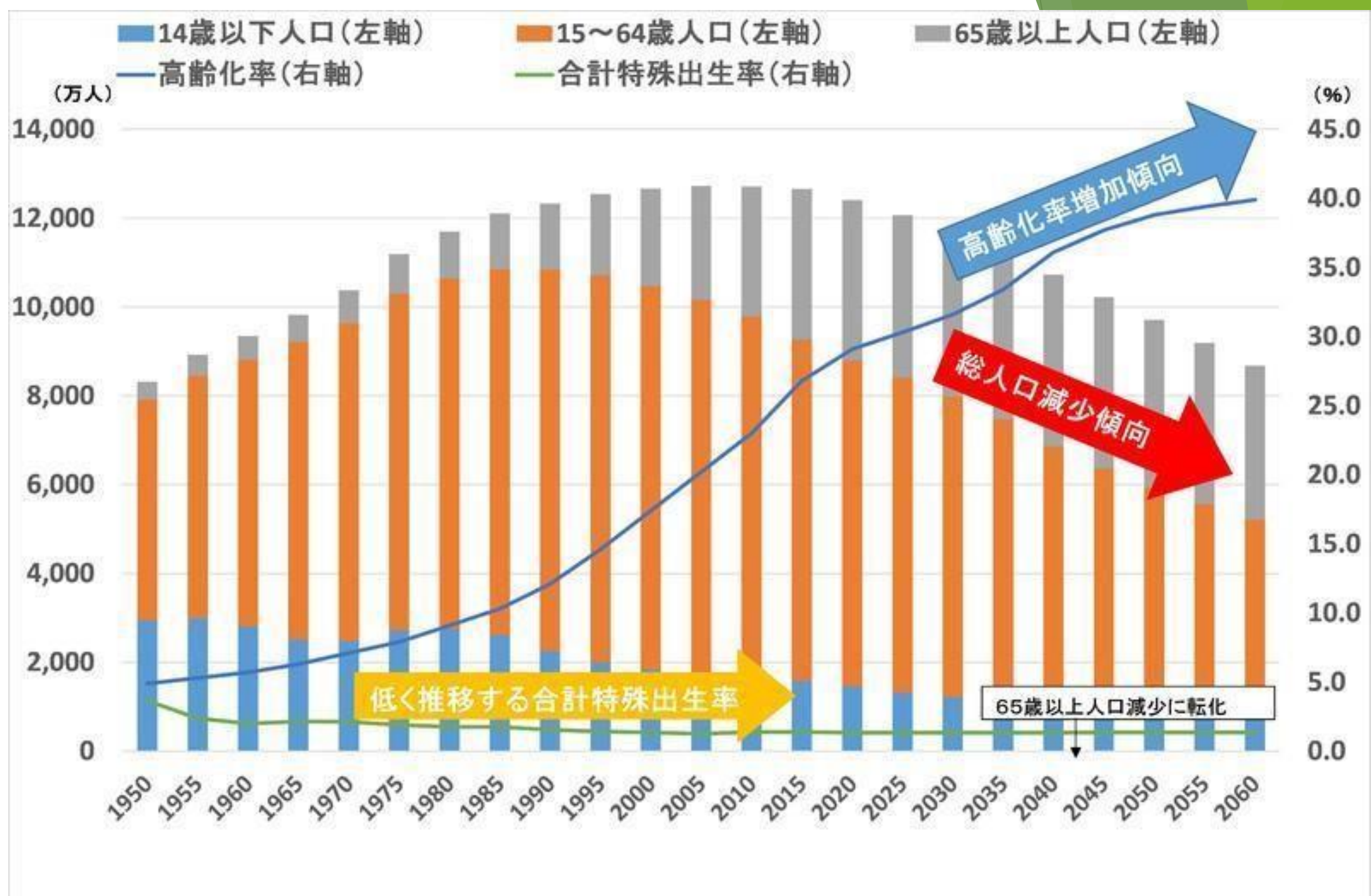
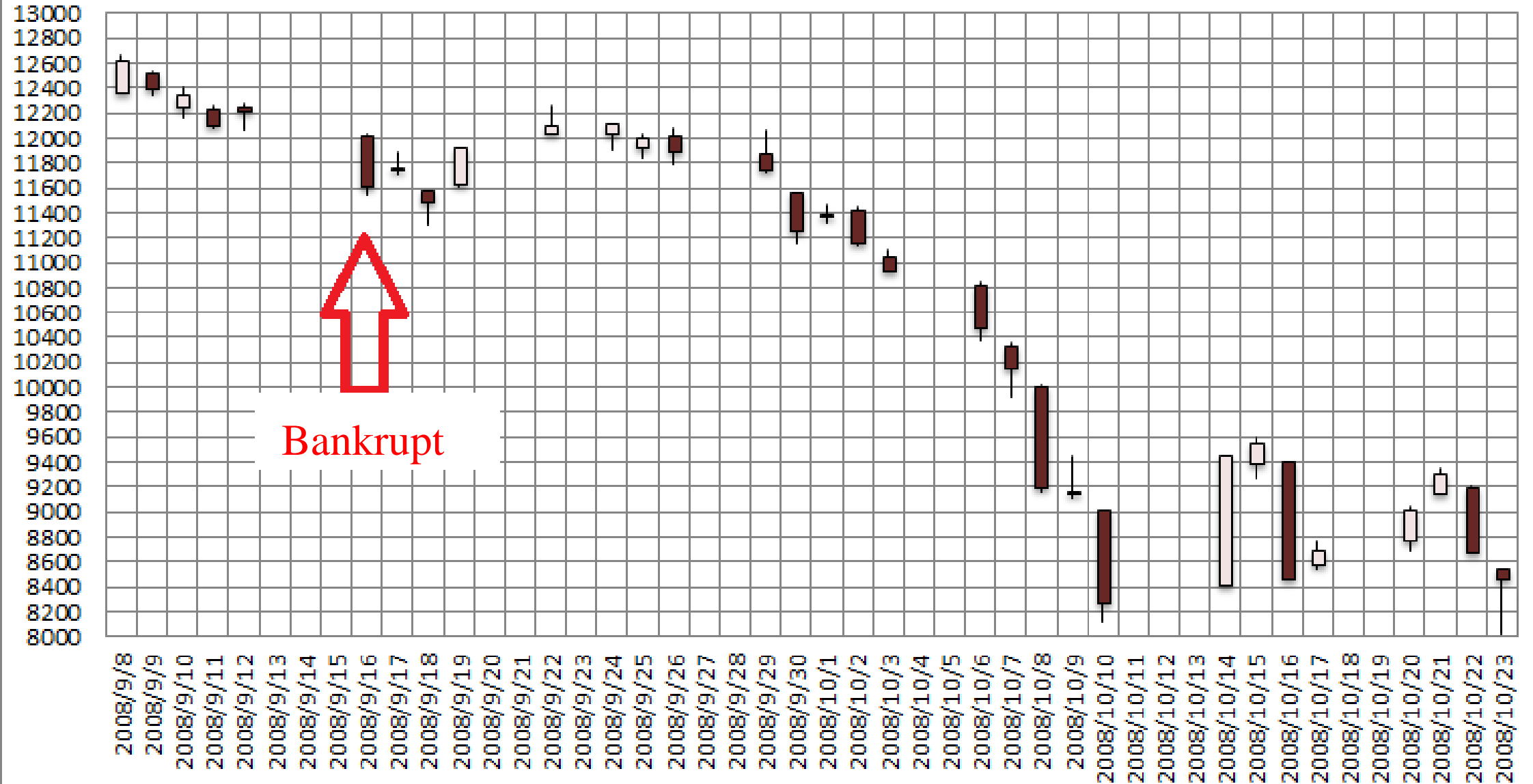




PHOTO ILLUSTRATION: GETTY IMAGES; SHUTTERSTOCK/CNN

Dramatic change of Nikkei Stock Average after Bankruptcy of Lehman Brothers



Definition of Risk and its Management

危機および危機管理の定義

Risk : Exposure to the chance of injury or loss; a hazard or dangerous chance. <http://www.dictionary.com/>

Risk Management : The identification, analysis, assessment, control, and avoidance, minimization, or elimination of unacceptable risks. An organization may use risk assumption, risk avoidance, risk retention, risk transfer, or any other strategy (or combination of strategies) in proper management of future events. <http://www.businessdictionary.com/definition/risk-management.html>

Why you need learn about “risk management” ?

危機管理を学ぶ理由

1) for assessing whether the risk may be or not may be.

その存在の理解

2) for forecasting the magnitude and probability of that risk, and anticipated problems induced by the risk.

その規模や可能性、予想される問題についての予測

3) for avoiding risk itself and anticipated problems by the risk.

危機（リスク）自体の回避および予想される問題の回避

4) for recognizing next risk/crisis and preparing for them.

新たな危機（リスク）に対する認識と備え

Primitive question (1)

素朴な疑問(1)

Can we
foresee
avoid in advance
these risks?

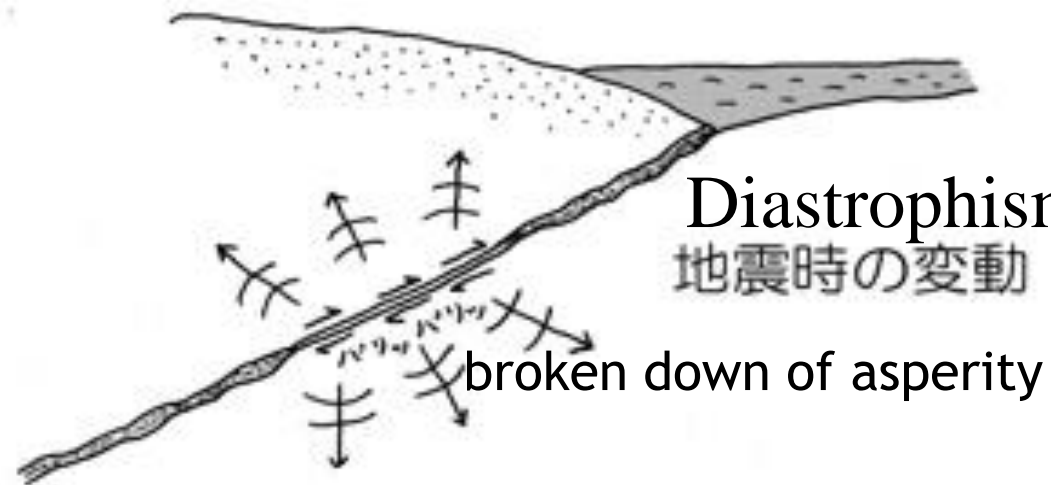
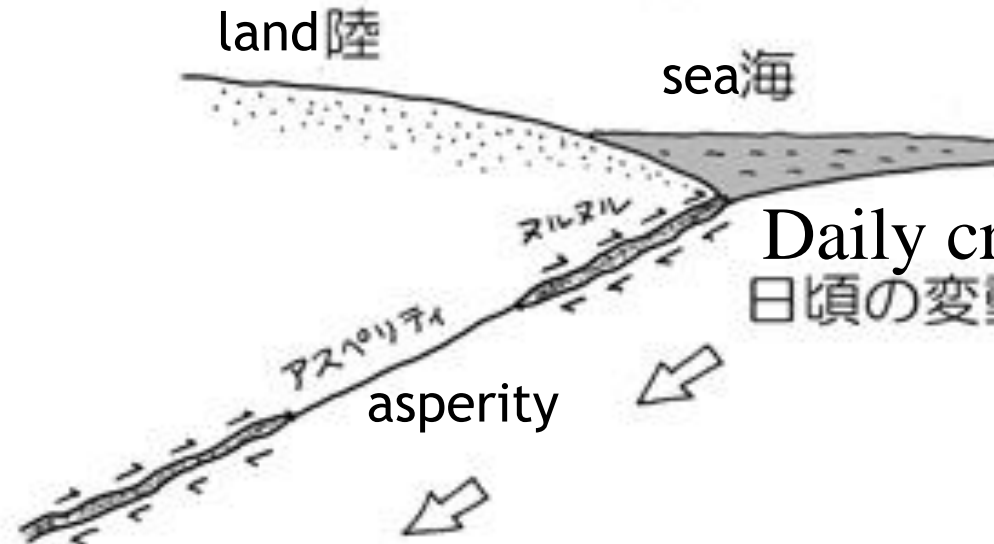
こうした危機や危険は
予知できるのか？
回避できるのか？

*Case of earthquake and economic crisis

地震の例

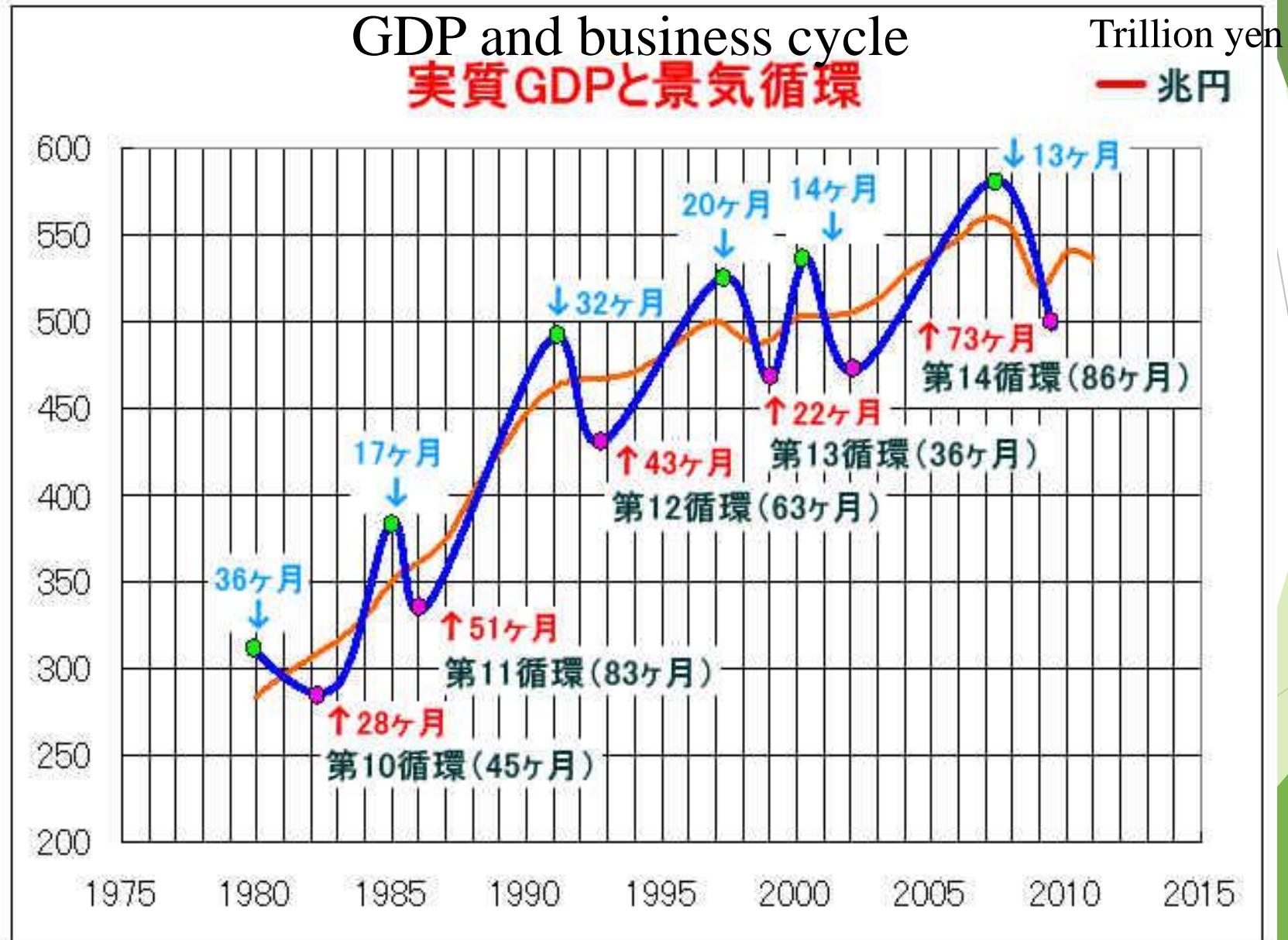
経済危機の例

Probability of mega earthquake



Availability of forecasting “economic crisis in Japan

経済危機予測の可能性



Primitive question (2)

素朴な疑問(2)

Do every hazards or perils forecasted by risk management process should induce serious “crisis” immediately? リスクマネジメントで「予知」された危険はただちに「危機」になるのか？



Purpose and goal of this lecture

本講義の目標

The purpose of this class is designed to:

-understand conceptual aspect of risk existing in organization and society, and then properly explain how our job and daily life would be influenced by these risks.

・組織や社会に存在するリスク/危機の概念を理解し、それが私達の職業や生活にどのような影響を及ぼすのかを的確に説明できる

-understand the importance of risk-communication by which the impact of explored risk should appropriately be shared with all members in society.

・リスク・コミュニケーションの重要性を理解し、問題の所在や想定されるリスクの程度を的確に他者に伝達できる

-understand technical terms of risk management, technology and the procedure of constructing expected risk management process in order for designing minimum scale of risk management system by yourself.

・リスクや危機の専門用語を理解し、また危機管理に必要な技法と構築手順の理解を通じて、自ら最低限の危機管理システムをデザインできる

Lecture plan:

- #1 Introduction: various aspects of risk and crisis in our society
- #2 Risk and Crisis: terminology and definition of risk management issues
- #3 Risk management in the era of IT improvement①: informational security and risk management
- #4 Risk management in the era of IT improvement②: IT and social life of nations
- #5 First mid-term exam.
- #6 Risk trade-off(RTO) ①: RTO in environmental problem and risk
- #7 Risk trade-off(RTO) ②: RTO in health problem and risk
- #8 Risk communication and biases: what disturbing appropriate communication?
- #9 Second mid-term exam.
- #10 Enterprise and operational risk①: background
- #11 Enterprise and operational risk②: technology and case study
- #12 Designing of risk management system①: target setting and process charting
- #13 Designing of risk management system②: expanding risk management process and system constriction
- #14 Designing of risk management system③: presentation of result
- #15 Final exam.

How to get your handout of this lecture through web site ?

講義資料のダウンロードについて

For environmental protection reason, the handout(resume) of this class should be downloaded by yourself into your lap-top or mobile except special case. So, please carry your lap-top or mobile onto this lecture

本講義で配布する資料（レジюме）は、**原則として**下記HPから各自でダウンロードしてください（講義中には紙ベースでは配布しません。ただし、特別な資料および講師が資料のアップロードができなかった場合は講義中に講師が配布します）。従って講義へはパソコンやiphoneを持ち込んでください

<http://yasukawafumiaki.weebly.com/>