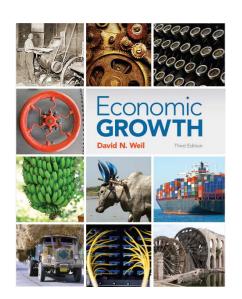
FUNDAMENTALS



4 □

Groups and Themes for presentations

- 1. Alessandro, Enrico, Elena, Hamza
- 2. Nauhaila, Nada, Nesrine, Hiba
- 3. Arrate, Irate, Tommaso, Khalid, Valentina
- 4. Ghita, Simran, Anna, Karolina K., Azza
- 5. Karolina D, Katharina, Fatma, Paula
- 6. Tomas, Ammar, Lisa, Gabriele, Carlo

- 1. Labour Mkt and Skills
- 2. Business Environment
- 3. Technological Progress
- 4. Public Administration
- 5. Green Economy
- 6. Education

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYS LEARNING

Calendar: 9-10-11 December

- 1. Labour Mkt and Skills, 11 Dec h. 10
- 2. Business Environment, 11 Dec h 11
- 3. Technological Progress, 11 Dec h 12
- 4. Public Administration 12 Dec h 10
- 5. Green Economy 12 Dec h 11
- 6. Education 12 Dec h 12

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYS LEARNING

PEARSON

Learning assessment procedures

- The evaluation will take place through a written exam and two assessments during the course (33.3% each). Students will have to prepare a written report and to present a specific case-study to the class. Students that will write the report and present a study to the class can choose to answer just one out of three questions at the final exam. [30 minutes per question].
- The written exam consists of three open questions (closed books) on the topics taught in the course. Students that will not present the report and study to the class will be required to write the entire exam (3 questions instead of 1).

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYS LEARNING

Learning assessment procedures

- The written exam includes open question on a general topic analysed during the course, such as: human capital, technological change, geography...
- The report refers to a short document about of a country/region for a potential customer/employer, be it a public institutions or a private company
- Presentations with slides of about 15 minutes for each student on an issue chosen by students (and approved by the Professor) on European issues/policies

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYS LEARNING

PEARSON

Syllabus for written exam

Economic Growth, D. Weil

PART I: OVERVIEW

Chapter 1: The Facts to be Explained

Chapter 2: A Framework for

Analysis

PART II: FACTOR ACCUMULATION

Chapter 3: Physical Capital Chapter 4: Population and

Economic Growth

Chapter 6: Human Capital

PART III: PRODUCTIVITY

- Chapter 7: Measuring Productivity
- Chapter 8: The Role of Technology in Growth

PART IV: FUNDAMENTALS

- Chapter 12: Government
- Chapter 14: Culture
- Chapter 15: Geography, Climate, and Natural Resources

PART V: CONCLUSION

 Chapter 17: What We Have Learned and Where We are

In italics only reading. No absences

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYS LEARNING

Country report

3/5 pages, cover included, if any

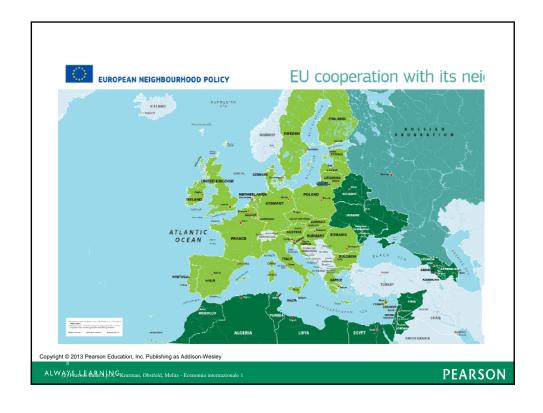
One page devoted to a statistical overview of the socio-economic background

Eligible countries

- o EU28
- Enlargement candidates
 - » Albania, Bosnia and Herzegovina, the former Yugoslav Republic of Macedonia, Iceland, Kosovo*,, Montenegro, Serbia, Turkey
- European Neighbouring countries
 - » Algeria, Armenia, Azerbaijan, Belarus, Egypt, G eorgia, Israel, Jordan, Lebanon, Libya, Moldova, Morocco, Palestine, Syria, Tunisia, Ukraine

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYPSark FARM DNG Krurman, Obstfeld, Melitz - Economia internazionale



Cases

- Report on a EU contry for an extra EU multinationals
- Report on a candidate country for a government body of a EU country
- · Report on a EN country for an ONG based in EU
- Report on either a candidate or a EN country for EU institutions (a DG for example)
- · Others?

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALW AYPS ar LE Mark N. J. N. G Krurman, Obstfeld, Melitz - Economia internazionale 1

PEARSON

Report delivery

- · Report: pdf file via mail to stefanousai@unica.it
- File name: surname_name.pdf
- · Mail subject: country report
- Mail text: specification of the case (see above)
- deadline: end of January?

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALWAYPSarloF AnBaN, ING Krurman, Obstfeld, Melitz - Economia internazionale 1

Report: examples

- Example 1
- Example 2
- Example 3
- Example 4

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALW & YEAR OF MARN J. N.G. Krurman, Obstfeld, Melitz - Economia internazionale 1

PEARSON

Presentations

- · Groups,
- Mixed group
- Theme: European issue/policy (your/our choice)
- 45/60 minutes
- · Group and Individual assessment
- December/January?

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

LWAYPear LE Aura N. N. GKrurman, Obstfeld, Melitz - Economia internazionale

Presentations: standard outline

- · Introduction: motivations, aims and summary
- Main analytical background and framework
- Main empirical scenario
- Focus
- Conclusions

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

ALW (Y) Sar L. Malla N. D. G. Krurman, Obstfeld, Melitz - Economia internazionale 1

PEARSON

Presentations: examples

- Example 1
- Example 2

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

LWAYPear LE Aura N. N. GKrurman, Obstfeld, Melitz - Economia internazionale

Groups and Themes for presentations

- 1. Alessandro, Enrico, Elena, Hamza
- Nauhaila, Nada, Nesrine, Hiba
- 3. Arrate, Irate, Tommaso, Khalid, Valentina
- 4. Ghita, Simran, Anna, Karolina K., Azza
- 5. Karolina D, Katharina, Fatma, Paula
- 6. Tomas, Ammar, Lisa, Gabriele

- 1. Labour Mkt and Skills
- 2. Business Environment
- 3. Technological Progress
- 4. Public Administration
- 5. Green Economy
- 6. Education

Copyright © 2013 Pearson Education, Inc. Publishing as Addison-Wesley

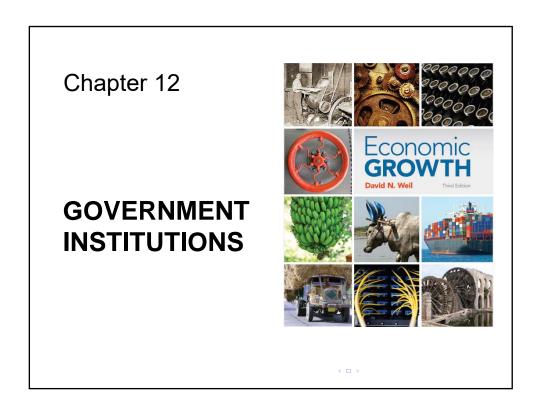
ALWAYS LEARNIN

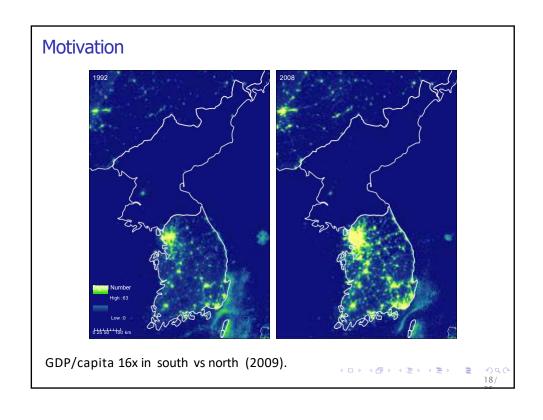
PEARSON

Calendar: 11-12 December

- 1. Labour Mkt and Skills, 11 Dec h. 10
- 2. Business Environment, 11 Dec h 11
- 3. Technological Progress, 11 Dec h 12
- 4. Public Administration 12 Dec h 10
- 5. Green Economy 12 Dec h 11
- 6. Education 12 Dec h 12

∢ □ 1

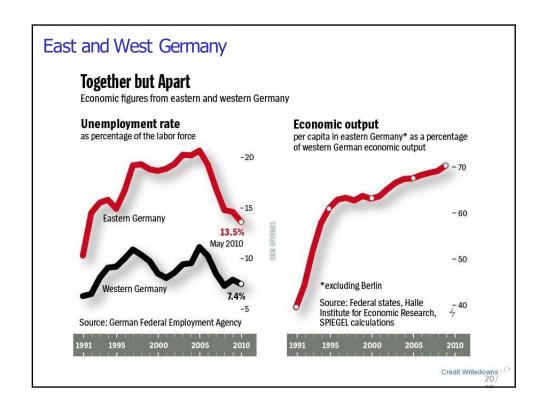




East and West Germany

Same culture, history including 2WW damage, natural resources.

West Germany: EEC. Market economy. Mercedes-Benz, BMW East
Germany: COMECON. Planned economy. Trabant.



Government

Government and institutions affect:

Accumulation of physical capital, through

- Public spending (e.g., roads....).
- Incentives/rules/laws.

Accumulation of human capital, through

- Public spending, e.g. education & health services.
- Incentives/rules/laws.

Political certainty/uncertainty.

Population growth (e.g. China's one-child policy).

Technological change (public spending on R&D, incentives, patent system)

Efficiency (tax system, regulation, security, administration of laws)



Theory: What is the role of government?

- Why do we need a government for growth?
 - Correction of market failures.
 - Redistribution of income.

□ → ◆ □ → ◆ ≧ → ◆ ≧ → ○ Q ○ 22 /

Market failures

Market failure occurs when the market does not produce an efficient outcome. Due to:

Public goods:

E.g. defence, infrastructure, rule of law, currency.

Externalities:

E.g. R&D, pollution.

Monopoly

E.g. electricity transmission.

Coordination failures:

When a group of firms could achieve a more desirable equilibrium but fail to because they do not coordinate their decision making.

E.g. car producers unwilling to invest bc of uncertainty about supply of car parts: supplier industry unwilling to invest bc of uncertainty about demand



Market failure

Market failure occurs when the market does not produce an efficient outcome. Due to:

Public goods:

E.g. defence, infrastructure, rule of law, currency.

Externalities:

E.g. R&D, pollution.

Monopoly:

E.g. electricity transmission.

Coordination failures:

When a group of firms could achieve a more desirable equilibrium but

fail to because they do not coordinate their decision making.

E.g. car producers unwilling to invest bc of uncertainty about supply of car parts; supplier industry unwilling to invest bc of uncertainty about demand



Market failure

Market failure occurs when the market does not produce an efficient outcome. Due to:

Public goods:

E.g. defence, infrastructure, rule of law, currency.

Externalities:

E.g. R&D, pollution.

Monopoly:

E.g. electricity transmission.

Coordination failures:

When a group of firms could achieve a more desirable equilibrium but

fail to because they do not coordinate their decision making.

E.g. car producers unwilling to invest bc of uncertainty about supply of car parts; supplier industry unwilling to invest bc of uncertainty about demand



Market failure

Market failure occurs when the market does not produce an efficient outcome. Due to:

Public goods:

E.g. defence, infrastructure, rule of law, currency.

Externalities:

E.g. R&D, pollution.

Monopoly:

E.g. electricity transmission.

Coordination failures:

When a group of firms could achieve a more desirable equilibrium but fail to because they do not coordinate their decision making.

E.g. car producers unwilling to invest bc of uncertainty about supply of car parts; supplier industry unwilling to invest bc of uncertainty about demand.



Redistribution

High- to low income.

Between generations.

But does it help growth?

- Lower inequality is correlated with faster growth.
- Redistribution is correlated with higher growth
- Inequality affects physical and human capital accumulation



The case against government intervention

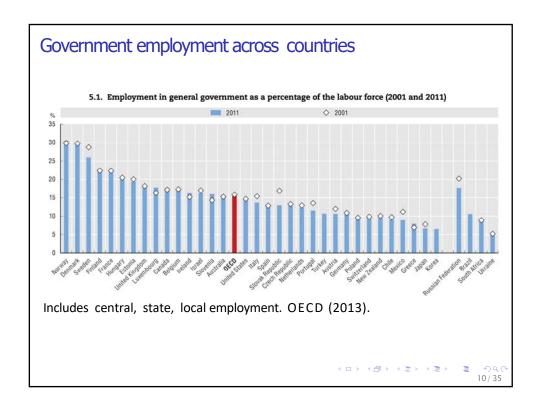
In theory government regulation can eliminate market failures. In practice, potential for *government failure*:

- When government intervention causes a more inefficient allocation of resources than would occur without that intervention.
- E.g. inefficiency in state-run firms (lack of incentives such as profits).
- What's the lowest cost: Inefficiency of monopoly or inefficiency of government regulation?
- Difficult to set the right tax/subsidy to internalize externalities.

Redistribution: Trade-off between redistribution and efficiency?

- Efficiency loss by raising taxes.
- Benefits from greater degree of equality.
- Arthur Okun (1975) "Equality and Efficiency: The Big Tradeoff"





Empirics: How the government affects growth

Rule of law.

The tax system.

Economic planning and policy.

Absence of government (conflict).

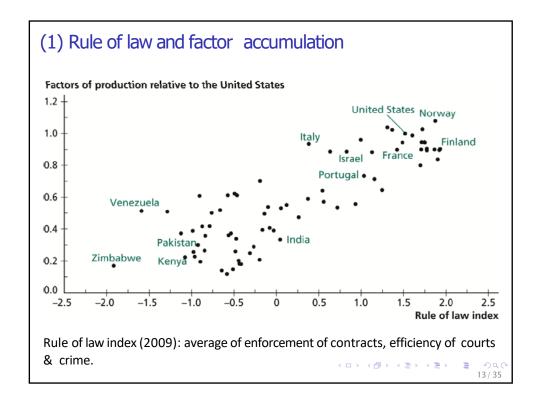
4□ > 4□ > 4□ > 4□ > 4□ > 11/35

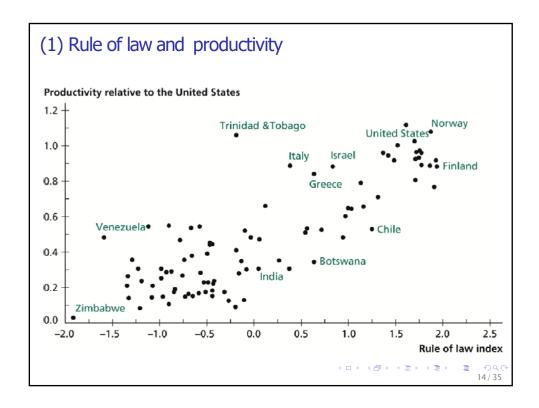
(1) Rule of law

- Essential public good.
- · Existence of courts that enforce contracts.

Patent laws.

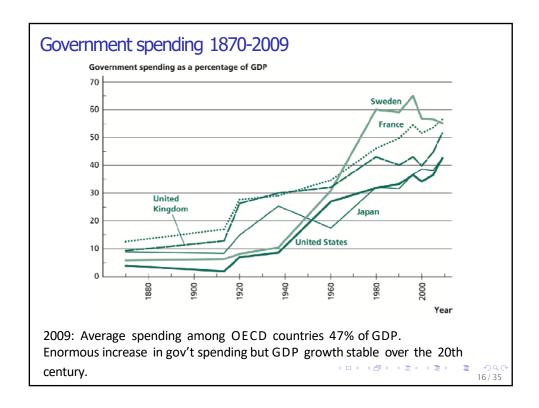
- Existence of courts and police to enforce ownership.
- Lack of rule of law a major reason for low growth and underdevelopment for many countries.
 - "The inability of societies to develop effective, low-cost enforcement contracts is the most important source of both historical stagnation and contemporary underdevelopment in the Third World" (Nobel price laureate Douglass North, 1993).





(2) The tax system

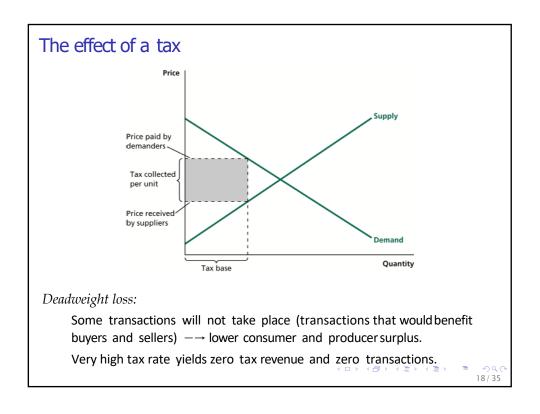
- High growth in spending the last century.
 - Richer countries require more complex regulation.
 - Wagner's law: The income elasticity for public goods > 1, e.g., health.

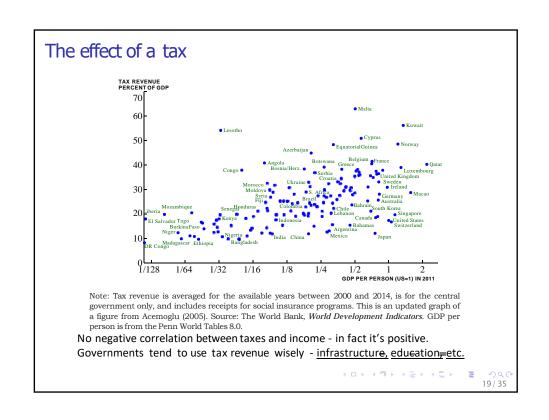


The effect of a tax

Taxes enable governments to increase spending that enables (human and phisical) capital accumulation.

But raising taxes also incurs an efficiency loss.





(3) Economic planning and policy

Macro policies

Industrial policies:

State ownership.

- Government owned banks 98% of bank assets in China.
- Value of govn't owned stocks on Norwegian stock exchange 37%.

Tax breaks / subsidies for certain sectors.

Trade restrictions (tariffs and quotas on imports).

- Infant-industry protection (e.g. South Korea and Taiwan).
- Agricultural protection in Europe.

Potential concerns:

Lack of incentives. Rent seeking. Business decisions based on political connections etc.

But outcome of policies varies across countries. Why?



(4) Conflict

Lack of government & conflict dampen growth:

Looting.

Flight of refugees.

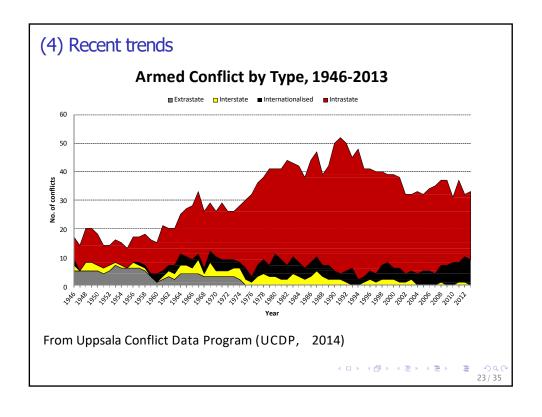
Destruction of physical and human capital.

Fall in investment, supply of public goods, domestic and international trade.

Example:

GDP of Mozambique fell by 1.3% every year during the civil war (1977-1994), then grew by 4.9% annually between 1995-2010.

(4) Conflict traps Countries caught in conflict traps: Conflict → growth ↓ ...and growth ↓ → conflict ↑. → Violence and poverty self-reinforcing. → Multiple equilibria. Why does poverty increase the likelihood of conflict? Opportunity cost of conflict low. Poor countries do not have necessary resources to stop violence.



Why some goverments do not facilitate growth

A different objective function.

Corruption: staff of government act in their self-interest rather than the

interest of the country.

Self-preservation: low growth policies best way to preserve power.



(1) A different objective function

Environmental concerns.

Redistribution.

E.g. aim to increase GNH instead of GDP in Bhutan since 1971.

(2) Corruption

Corruption lowers income.

Direct effects:

Waste/misuse of government funds.

E.g. tax fraud (bribing tax authorities).

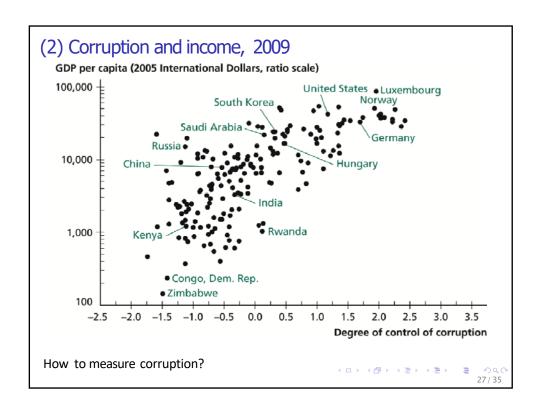
Indirect effects:

Misallocation / entry barriers.

Economic policies enacted just to facilitate corruption (import quotas).

Undermines rule of law and possibility of building good institutions.





(3) Self-preservation

In some cases low growth may be optimal if the objective of policymakers is self-preservation.

New technology reallocates economic power away from current ruler.

• E.g. social media and Arab Spring.

Education and human capital generates new ideas.

Formation of cities and urbanization generate new social structures.

International trade facilitates imports of new ideas.

Trade-off: Absence of economic growth produces discontent and increases the likelihood of invasion.



Why poor countries have bad governments: Empirics

Poor countries tend to have particularly bad governments. Why? Causality goes both ways

Low income ←⇒ Bad government

We'll discuss the empirical evidence for both directions of causality.

4 □ ► 4 □ ► 4 □ ► 4 □ ► 29/35

Income to government quality

Higher income can lead to better gov't quality because

Public employees receive higher wages \rightarrow less corruption.

Less conflict within government / between interest groups when government spending/income is larger.

Good government is a luxury good.

Some case studies suggest that income $\uparrow \longrightarrow gov't$ quality \uparrow .

Government quality to income

Case studies:

- N/S Korea experience suggests that the cause is government.
- Bad government due to colonizers.
 - * Rules out the other direction of causality.
 - * Of the 30 most corrupt countries, 22 are former European colonies.

Why did colonialism lead to bad government?

Borders did not follow ethnic boundaries.

Divide and conquer strategies.

Institutions maximized income of colonial powers, and not of population.

Slavery, depletion of natural resources.

Bad institutions persist over time.

Wrong infrastructures... based on interest of foreign contries

4□ ► 4 🗗 ► 4 🖹 ► 1 🖹 → 9 Q © 31/35

How to disentangle causality

Acemoglu, Johnson and Robinson (2001):

What is the causal impact of institutions on economic development? Instrument variable approach.

Find something that (partly) determines early/current institutions but that does not affect current economic performance directly.

Their solution: Settler mortality.

- European migration to colonies where disease low (e.g., Australia).
- Extractive institutions in places where disease high (e.g., Congo).

They find large effects of institutions.



Government quality to income

Bad gov't not always bad for growth -

Chinese growth dispite widespread corruption (117th out of 186 countries in corruption measure).

New York City 1800s. High growth & widespread corruption.

Democracy and growth

Why democracy can improve growth:

Limits on power \longrightarrow bad rulers not re-elected. Milton

Friedman's "Capitalism and Freedom" (1962):

- Political freedom -→ Economic freedom -→ Growth.
- E.g. no real dissent possible if capital owned by the gov't.

On the other hand, democracies can be

Prone to political instability.

Short-run gains versus long-run growth.

Special interests and lobbying.

Slow and inefficient.

Case study: India versus China.

7.9% growth in China vs 3.7% in India (1975-2009).



