15 Industrialization

US Industrialization

When?:

US - 1820

Garmany-1850

How Just?:

Short answear: Very just

US overtakes GB in GDP per cayata in 1880

Cermany — 11 — in 1870-1900

What sectors?

Leading sectors

UK: Cotton & Ivon/Steel

US: Cotton(Very important) & bon/Steel (Pitts burgh) 2 Important vivers + coul rescourses

Germany: Iron & Steel (Ruhr valley)

What were the economies like before industrialization?

Not just agriculture

Cumany: Founded in 1871, Prussice: Agriculture

West Germany: Some industrialization

US: Agricultur: Not the most important

Commerce: Fish, Wood, Shipping, Slave trade

13 Mercantile nation

Where did they get their technology from? "Steal" it from UK -> They were 50 years ahead

l Tin Plating (Proteting Iron from corrosion)

- Slater

- Louvell

England tries to block the transport of shilled workers to other countries flow to hide inventions:

- Patents

- Just hiding the invention

- Trade Secrets

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How to get Englands Tech: They can buy it They can steal it Important tech: New way to create good iron from bad Railways iron ove - important to commany Railways Ironworking (Bessemer-proscess) How was business structured? Joined Stock-companys: Banned in England (1770-1850) What to do? 6 Partnerships Hinancing: Two ways: Either equity (Egenhapital) or clebt Debt: Small banks at the time, hard to finance Why small banks? ∈ They are also partnerships What does the partnership-structure entail? - Restricted equity - Restricted debt (Small bombs, borrow money from family und friends) They remuest alot Companies founded at this time: Cadlung, Lloyds, Fry's, Barclay's ... 4> Quakers What is Quahers? England has a start church (Church of England) It you are not a member, you can't do a lot of things You cant: - Cc to University - Can't become a lawyer - Can't join the military - Cant join politics - Can't join the church 15) They are not people thing Quahers an not in the Church of England

Right knit community

15 Very reliable

Slater goes to the US, meets Brown How do they structure their business? 55 Loter gets a shue of the purtueship. Why? They want to encouncinge Principal - Agent model (Brown Csluter The point of the model: Brown can't observe Slater -Non observate -Non venjuble Brown cunt force States to do anything

So: He structures Slaters contract so Sluters interests allign with his

6) Go in to a partnership Slater: Knowledge

Brown: Money, Well connected, Experience, Business Knowledge

Lowell: Same as Brown

Whaling:

More complicated than normal shipping

1) You don't know where the whales are

2) Can loose the ship

Structure of the Whaling ship:

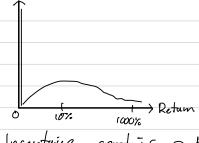
Similar to modern venture capital syndicate

Agent: Contribute money

The agents choose a capitain, he also gets a share

Distribution of return:





Incentuise captains - this actions are unobservable Spread vish

Natural Rescourses Today: US & Germany makes a lot of processed goods 1900th Century: Productions was very natural rescource intensive went? bron, Coal, Cotton, Lumber, Jish, suger, tobacco etc... How to know of inclustry is natural rescourse intensive? book cet two thins: X= How rescource intensive me US imports? Y= How rescauce intensive are US exports? Create a ratio: = Tuns out: In the 19th Century: This vatio was 5 Wright made tous and he used Input/Output tables 2) What was UK like before industrializations Agriculture and Communice was very important before and during industrilization Had to import a lot of natural rescources 13 Cotton from US, Tobacco Bugar from West Indies , Co look at c.f. China, Asian Tigus