Module 2: Capitalism

- What is capitalism?
 - Is it the natural system which simply arises from basic human instinct, or is it just one economic system among many, which just happens to be dominant at the moment?
 - Is it a sociopolitical reality, essentially referring to structures of power, the relationships between people who own things and people who don't?
 - · Social pyramid
 - Is it an economic reality, referring simply to the way our economy works (as opposed to other ways that it could)
 - Is it something else entirely
 - Surplus, Profit, Competition
- Major elements of capitalism
 - Class division, profit motive, free markets
- The economic dimension of capitalism
 - Capitalism is an economic system in which goods are owned by private individuals or businesses
 - Production based on supply and demand in the free market (as opposed to a centrally-planned system)
 - In its pure form, capitalism allows private individuals to produce, buy, invest and sell whatever and however they see fit
 - In reality, most modern countries practice a mixed system in which governments regulate some private activity
 - Hence, the concept private property is central to understanding capitalism
 - The only legitimate means of transferring private property is through trade, gifts or inheritance
 - Private property promotes efficiency by providing its owner with a strong incentive to maximize its value
 - To insure that the value of private property belongs to its owner, the central role of a government in a capitalist system is thus to protect private property, to promote confidence
 - Police, judicial system
- Technically private property produce profits. How?
 - By definition, individuals only enter a voluntary exchange of private property when they believe the exchange will benefit them. Therefore, both the buyer and seller obtain benefits from the transaction
 - Both profiting from transaction
 - Therefore, capitalist transactions can be justified both by utilitarian as well as libertarian arguments!
 - **Profits** indicate **increased value** (less valuable input transformed into more valuable outputs through transaction), while losses indicate the opposite
 - Because both parties profit from voluntary exchanges, capitalism provokes capital accumulation.
 - This is known as economic growth
 - It is not a zero sum game
 - · Profits and losses do not compensate for each other
 - Both parties increase their value (no one looses)
 - This is enormous! No per capita economic growth from 10 000BCE until the rise of capitalism, in the 18th-19th centuries
 - GDP used to be the same year after year

- Nets of value = price bought/sold- value to the person
- The Philosophical foundations of capitalism
 - There are two fundamental philosophical arguments for free market capitalism
 - Liberal (Libertarian) argument: interfering with the free market (individual's freedom to do what they please with their belongings) violates their freedom
 - Utilitarian: capitalism generates general welfare: When two people make a deal, they are both more well off
 - As long as their trade makes them better off without hurting anyone else, it must increase overall utility
 - However, modern economic thought emerged with a hugely influential philosopher: Adam Smith (1723-1790)
 - People do things for their own interest
 - The Wealth of Nations (1776)
 - Invention of the notion of an Invisible Hand
 - So, a somewhat purist, Smithian view of capitalism would imply that only the search for personal interest, and economic growth through business transactions, can insure general public welfare
 - Conversely, any and all obstacles to such pure market mechanisms and dimish general public welfare
 - "The Social Responsibility of Business is to Increase its Profits" by Milton Friedman (1970)
 - Milton Friedman: => most influential economist in the second half of the 20th century (The Economist) => Economic advisor to President Ronald Reagan and Margaret Thatcher
 - Primary figure of "monetarist" economic policy, closely associated to the neoliberal turn of the 1980s decade.
 - Idea of social responsibility is wrong => companies should only increase their profit
 - Social responsibility = communism
 - Responsibility of company => only to increase profits
 - Some problems with capitalism
 - 1. Capitalism tends to underproduce public goods
 - What is a public good? Some examples?
 - Public good => consumed by everyone without profiting anyone
 - Public transportation (would have less if private) => reduce traffic, cleaner air; education=>
 educated work force, free vaccinations=>healthy society, arts, sports and perhaps mostly a
 clean environment
 - Positive externalities
 - Externalities: Indirect consequences => clean air, reduce traffic, reduce pollution
 - 2. Under-pricing & over-consumption of natural resources
 - In a competitive capitalist economy, prices reflect the cost of producing them, sending the right signal to consumer
 - Does not work with non renewable objects or very slowly renewable
 - Works with large quantity of product but not for non-renewable or slowly renewable products
 - Sustainable consumption
 - Fossil fuels, fish stock, forest product
 - For these products, the market consumes faster than resources can replenish (overconsumption) because they are under-priced
 - 3. Capitalism produces negative externalities

- A negative externality is a cost that is suffered by a third party as a result of an economic transaction
 - Some examples: playing loud music at night, owning a car, building power lines, and of course, all form of pollution
 - This means that again, resources are underprices when they don't fully integrate all of there costs (to the environment, especially)
- Capitalist rebuttal: "but there wouldn't be externalities if ALL resources were allocated as private property"
 - Sure but is it realistic to privatize all oceans, lakes, rivers, forests, the atmosphere, public health
 - Is it even desirable
- Companies and capitalists usually complain when regulations are imposed to limit externalities, arguing that it makes them less competitive
 - According to Erik Olin Wright, what does this complaint amount to?
- 4. Capitalism is fundamentally biased towards consumerism
 - Increase of productivity (Output: input)can lead to reduced input or increased output
 - The profit motive naturally pushed companies to the latter
 - Hence advertisement
- 5. Capitalism is environmentally destructive, in 3 ways
 - 1. Negative externalities, companies ignore environmental cost of their production
 - 2. Non-renewable resources consistently underpriced
 - 3. Bias towards consumerism rather than reduced inputs
- The History of Capitalism
 - The Industrial Revolution began in the UK. Why?
 - Very productive agriculture
 - No longer need everyone to work in the field => more people moving towards city
 - Increased buying power of the population
 - More dynamic economy => birth of buying class
 - Wealth of United Kingdom
 - Profitable sugar plantations in the Caribbean
 - Lots of capital pouring into the UK => money that can be invested
 - Domination of the slave trade
 - More money in UK
 - Powerful navy to protect international trade
 - Protected trade route and commercial interests
 - Aggressive economic policy (import tariffs)
 - Cheap resources from colonies and sell their product to colonies very expensive
 - Extensive network of rivers and coastline
 - Easy to transport merchandise
 - Lastly, but most importantly, large deposits of fossil fuel (coal), the primary fuel of industry
 - British discovered enormous deposits of coal right on the surface in the UK
 - France not a lot of coal and very deep under the ground
 - Many other valuables resources as well, like iron &other metal
 - Industrialization begins in the textile (garment) industry
 - One of the biggest industry of the world => lots of money potential
 - The "putting-out" economic system

- Merchants "loan" resources to women who work from their home then take a share of profits
- Cotton loaned to spinners
- Women would spin the cotton in their free time to make threads
- Give back to merchants for a profit
- Yarn loaned to weavers (other woman who would spin it)
- Problem! (Opportunity)
 - Traditional spinning wheel is extremely inefficient
 - Five spinners for every weaver
 - Weaver not that efficient either
 - Very slow
 - 1765: The Spinning Jenny by James Hargreaves
 - · Big machines
 - Operated by hand, up to 10x faster than spinning wheel
 - Spinning wheels were at people's houses but these machines were in the original factories
 - 1769: The "Water Frame" by Richard Arkwright
 - 100s of times fasted than spinning wheel
 - Cannot be operated by hand! Solution?
 - Factories near rivers => for the water wheels
- So between, 1750 and the 1770s, the putting-out system is gradually abandoned in favour of large riverside factories
 - Originally textile factories were near rivers and not in cities
 - Still, there is an energy problem in Britain. Why?
- Since the dawn of civilization, until the 18th century, animal strength and firewood are the two dominant sources of energy (beside human strength)
 - Even in metallurgy, wood coals are the source of heat
- With Britain's booming economy and increasing population, wood is now very hard to come by!
 - This would be made even worse with the Napoleonic wars
 - Napoleon blocks all European ports from trading with Britain
- A possible solution could be coal, but its mining is complicated, inefficient, and very expensive
 - Mines would fill up with water => couldn't get it out of the ground
 - Animal powered pump
 - Animals were very expensive so it was not economically smart
 - To drain coal mines efficiently, there is a race between inventors to come of with better pumps
 - Thomas Savery's engine (1698) (name and date not important)
 - Thomas Newcomen's engine (1705)
 - James Watt's engine (1763)
 - Steam engine
 - First truly efficient steam engine pump
 - Coal became cheap
 - By 1780s, Watts steam engine is used in many other sectors, beside pumping coal mines:
 - Cotton textile factories, flour mills, malt mills, pottery mills, sugar refineries, iron industry
 - Rivers were unpredictable, steam engine more predictable
 - Iron production explodes
 - This allows for production of more engines, eventually rails, steel beams, etc

- Factories no longer need to be built along rivers! They can now be built in the heart of cities, where the workforce is!
 - Factories employ many many people
 - Cities became economic hubs
 - Very large cities
 - London=> 1 million inhabitants first time since Roman Empire
- Here we start to see the principles of economic growth at work! We can see the positive feedback loops!
 - · Self reinforcing wheel
 - The consequence helps the cause
 - Ex: Number of cattle running => Overall level of panic => more cattle panic etc
 - Need coal => Must pump water out of coal mines => Invent engine pumps that function on coal => Find more applications for steam engines => Need more coal
 - Basis of economic growth
- Very quickly, steam engines provoke a revolution in transportation, as well as industry
 - Locomotives
 - Causes explosion in rail building industry
 - Steamships
 - Complete naval revolution
 - Drastic reduction in shipping costs
 - Revolution in naval warfare
- Dramatic economic consequences
- Another positive feedback loop
 - Steam engine becomes available=> Steam engine applied to transportation => Shipping costs reduce => Increased demand for coal, steel and engines => Build more engines, extract more coal
 - Beginning of economic growth
- Throughout 19th century, British Industrial Revolution becomes Global Industrial Revolution
 - First, USA, then Germany, France, Russia, Italy, etc
 - Eventually, Asia, Latin America, rest of World
- Then, Second Industrial Revolution (Late 19th, early 20th)
 - Electricity
 - · Advances in chemistry
 - Replaceable parts
 - Rubber
 - Petroleum
 - Automobile
 - Telecommunications
- A Third Industrial Revolution
 - Debatable because did not create huge economic growth
 - · internet
- A Fourth Industrial Revolution
 - Artificial intelligence