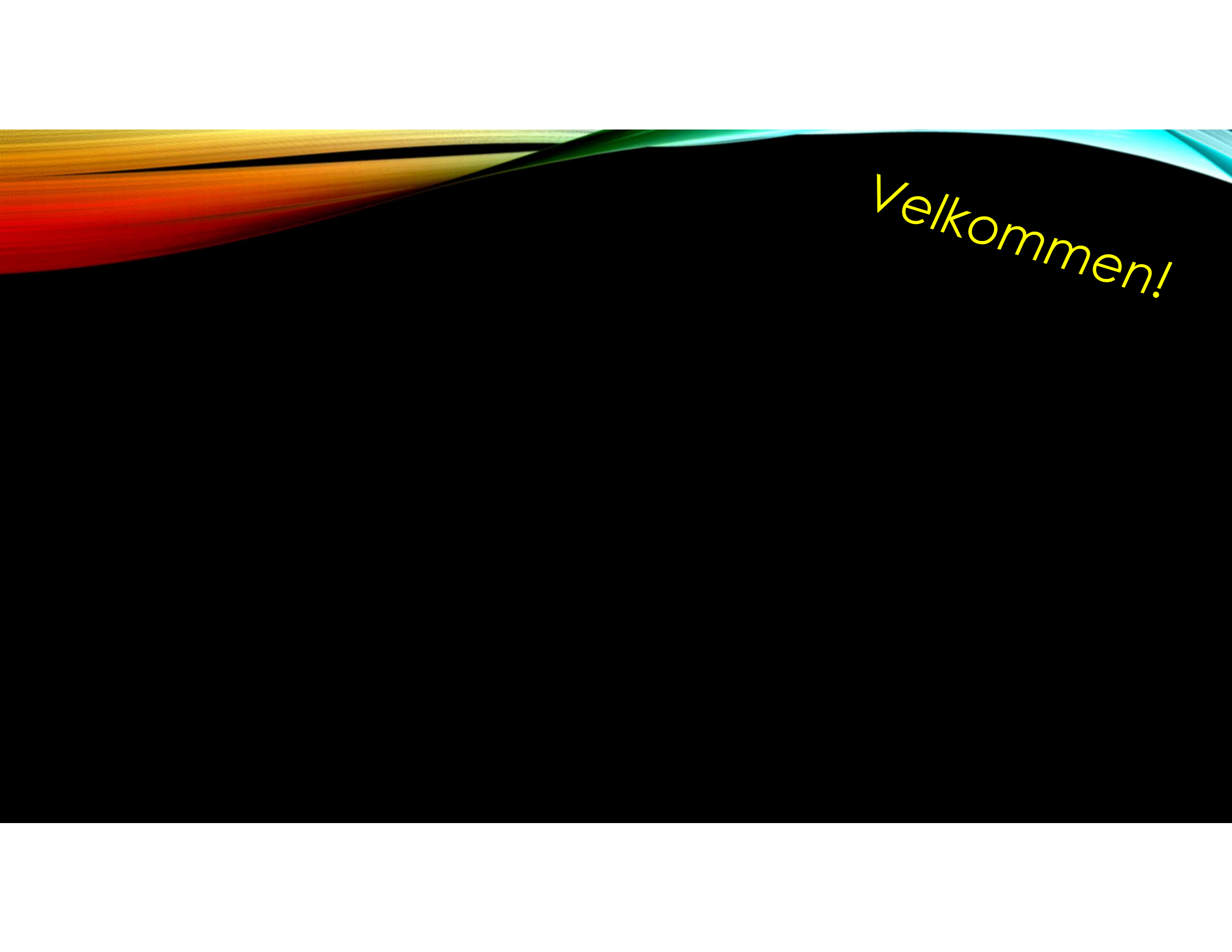


FINANCE MBA MIDDLESEX 2021

Peter Nordgaard
September 2021



The image features a large, solid black shape that flows from the top left towards the bottom right, resembling a stylized wave or a drop. Above this black shape, there is a horizontal bar with a vibrant color gradient. The gradient starts with a bright yellow on the left, transitions through orange and red, and ends with a bright cyan/blue on the right. The word "Velkommen!" is written in a yellow, sans-serif font, positioned diagonally across the upper right portion of the black area.

Velkommen!

LEARNING OUTCOMES

1. Critical Financial Accounting
B/S, P/L, Cashflow,
Analysis

2. Understand Accounting,
(5) Corporate Finance,
Investment, Costs Control
and Working Capital

3. Understand/Apply
Economic Principles
Supply/Demand,
marginal analysis,
Opportunity Costs

4. International Economics, banking,
trade, foreign investments

6. Performance Measurements,
Corporate Governance,
Control, Ethics/Moral

7. Communication and presentation of
financial/economic ideas
to different audiences
across a diverse range of
settings

8. application of
numeracy and
quantitative skills,
including the use of
simple models, to business
and economic situations

Knowledge

Skills

ASSESSMENTS

30%

Managing during
challenging times

70%

Case Study
Qualitative and
Quantitative Analysis

I er nu testpersoner

Kan vi lære økonomi på en anden måde?

Mindre grafstudier, mindre matematik og mere forståelse
Mere Relevans!



Hvor langt kan jeg gå?



Det meste økonomi er gambling...



**- JAG KAN SLUTA
SPELA NÄR JAG VILL**

SKA VI SLÅ VAD?



Vores første tilgang til Finance i dag vil være;

Hvorfor?

"Finance er studiet om hvordan livet bliver muligt",
Peter Nordgaard, April 2021

Lad os tage en hurtig øvelse – hvad ville være umuligt uden
økonomiske principper



**- JAG KAN SLUTA
SPELA NÄR JAG VILL**

SKA VI SLÅ VAD?



Du skal forberede dig og være tålmodig. Du skal være tilstrækkelig åben til at vi kan have relevante dialoger.

*På videolektioner vil vi ikke optage hele dialogen.

Dealen...

"Finance er studiet om hvordan livet bliver muligt",
Peter Nordgaard, April 2021



**- JAG KAN SLUTA
SPELA NÄR JAG VILL**

SKA VI SLÅ VAD?





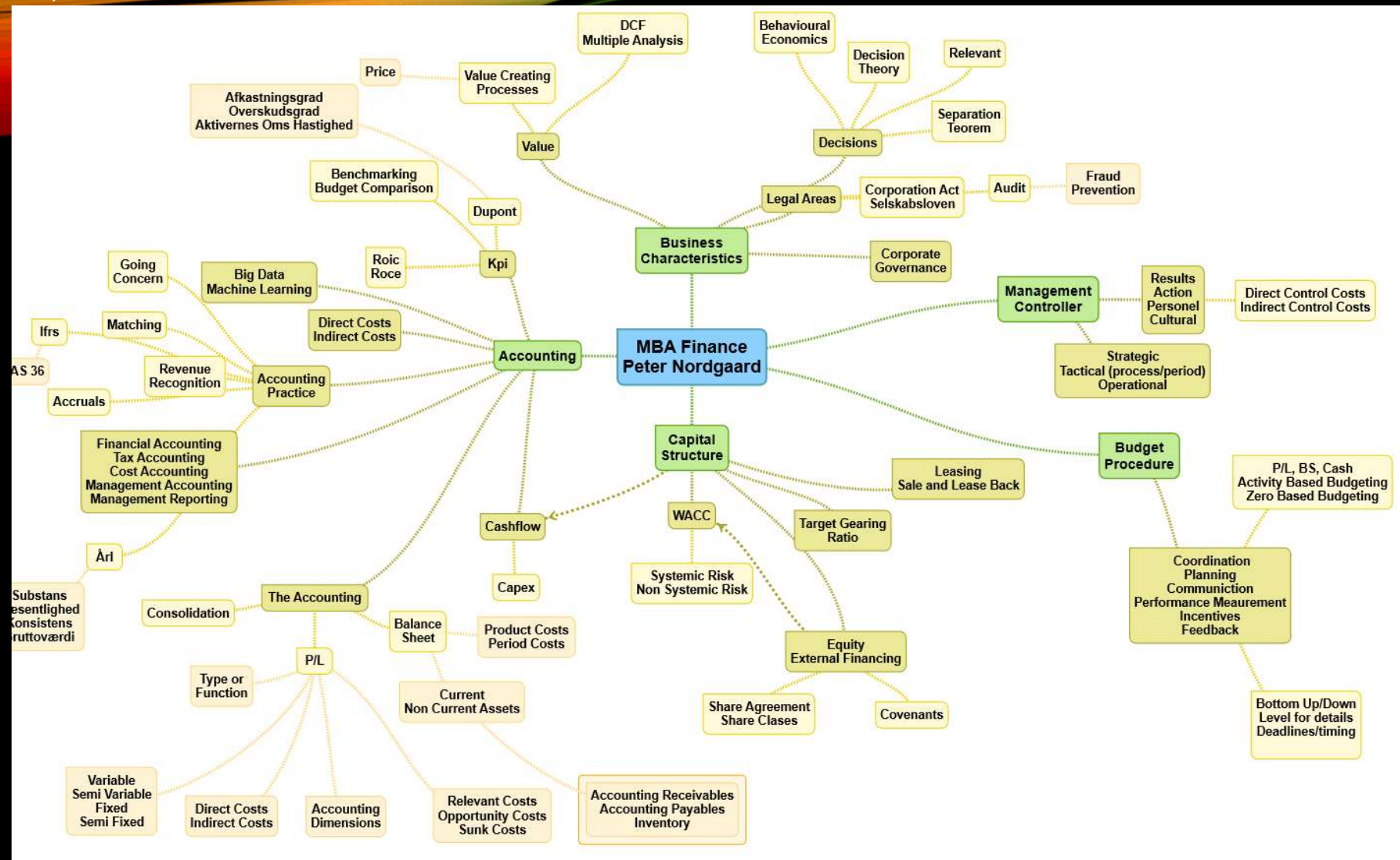
ALT HAR EN MENING

- *3. **Informed consent** should be freely given by participants, and by a trained person when collecting or analysing human tissue (details on accessing and completing online training for gaining informed consent for HTA purposes can be found below in Section 8).*

Mindmap Finance Macro



Mindmap Finance Micro



AL DET ØKONOMI DU NOGENSINDE BEHØVER LÆRE!

Peter Nordgaard
September 2021



Macro Economy
Is the study of aggregated
demand, production etc.

Makroøkonomi handler om alt omkring os.
Renteniveau, valutakurser, beskæftigelse og
støtteordninger

Næsten alle elementer påvirker hinanden

Historisk er makroøkonomi ikke mere end ca. 150 år
gammelt

Mikroøkonomi handler om det enkelte individ og dets
beslutninger

Historisk er denne tradition langt ældre

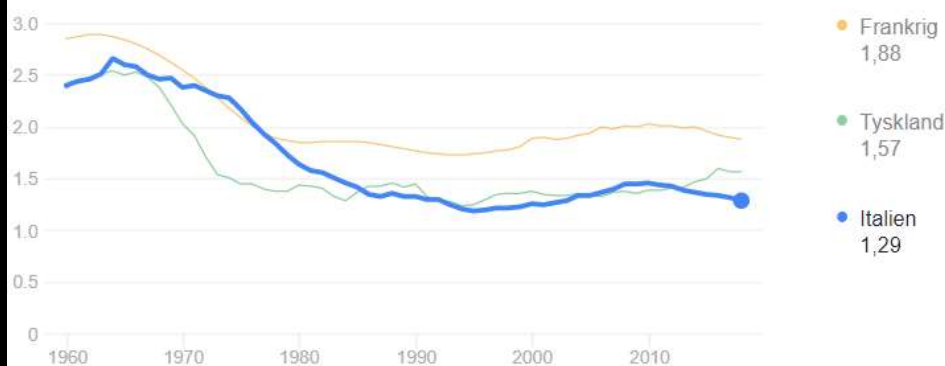
Micro Economy
Is the study of individual
companies and individuals

Macro examples

Wealth distribution across generations

Italien / Fertilitetsrate

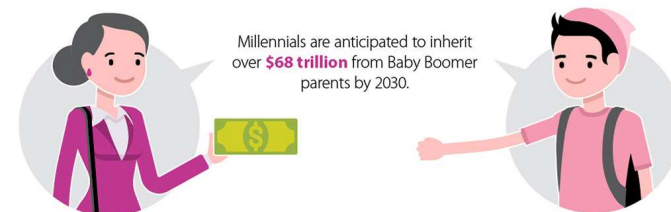
1,29 fødsler pr. kvinde (2018)



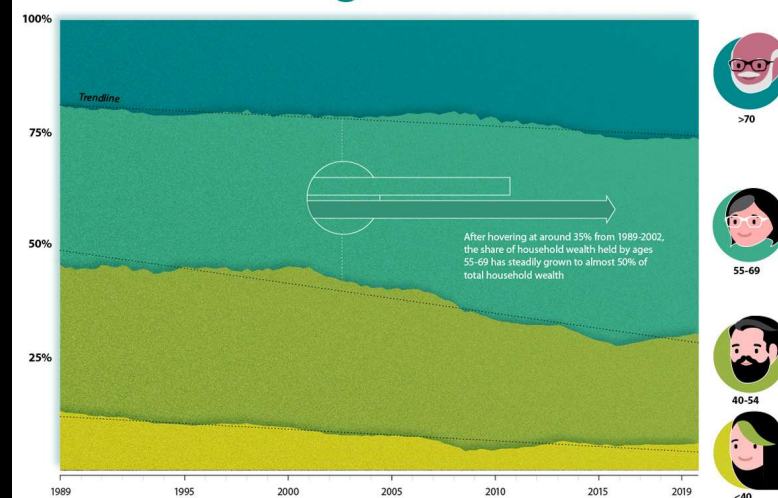
Blandt kilderne er: Verdensbanken

Investeringer i tidlig indsats diskuteres ofte med udgangspunkt i den såkaldte Heckman-kurve, der beskriver det samfundsøkonomiske afkast ved investeringer i forskellige aldersgrupper. Kurven er udtryk for det potentielle afkast ved investeringer i en tænkt situation, hvor der bruges lige mange ressourcer på alle alderstrin. I dette tilfælde vil afkastet være størst ved investeringer i de yngre aldersgrupper. Hvis Heckman-kurven empirisk kan findes for offentlige indsatser, tyder det på, at der vil være effektivitetsgevinster ved at forskyde offentlige indsatser i retning af indsatser tidligere i livet. (Vismænd april 2021)

https://dors.dk/files/media/rapporter/2021/f21/endelig_rapport/f21_hovedkonklusioner.pdf



U.S. share of household wealth **BY AGE**

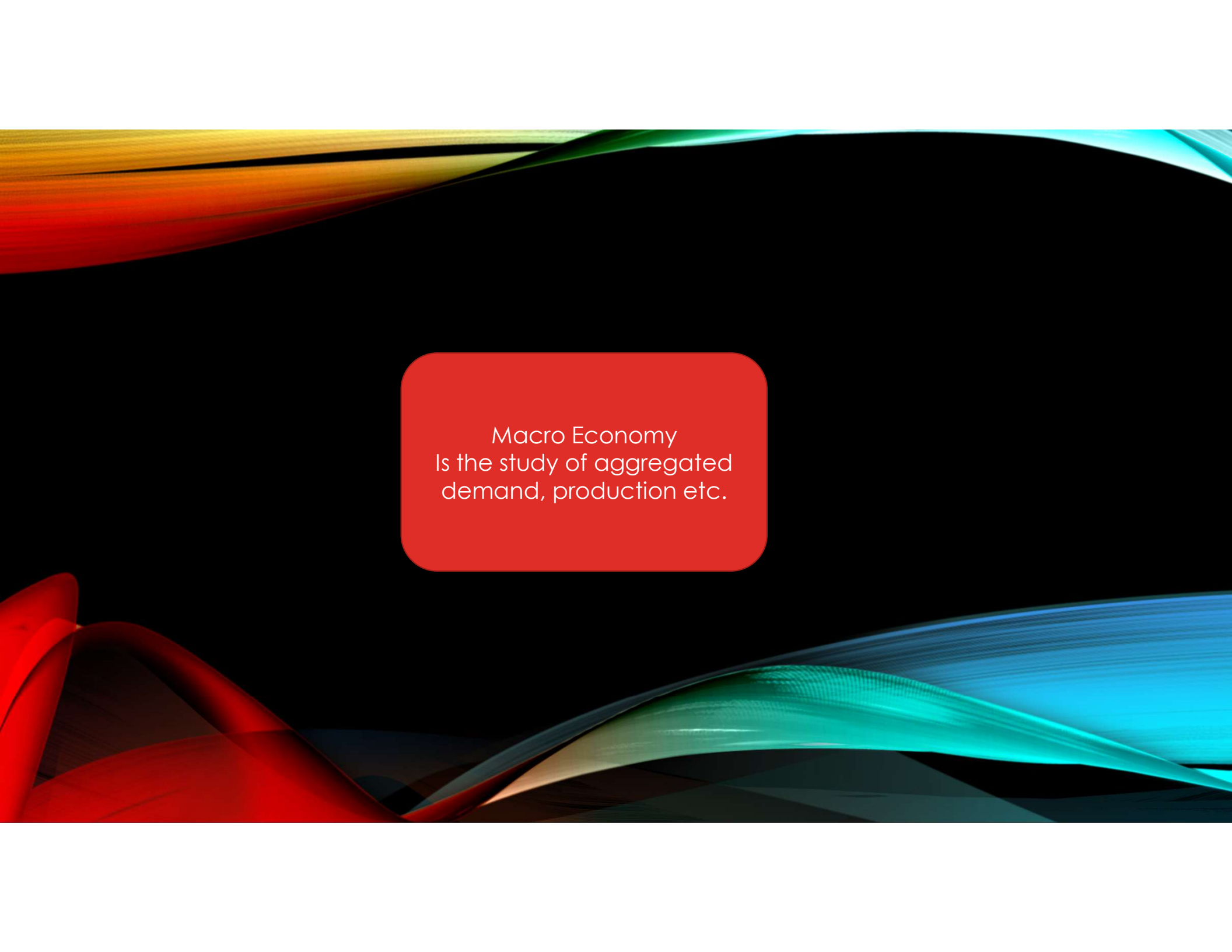


When Baby Boomers were under 40, they held 13% of household wealth, compared to just 5.9% for Millennials under 40 in 2020.

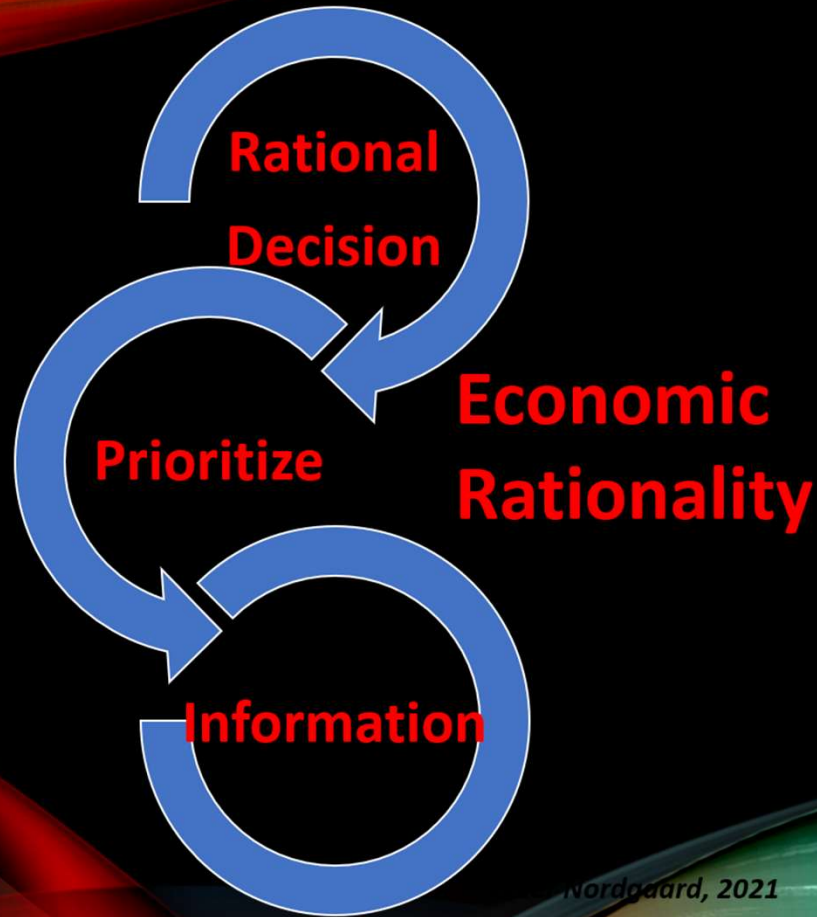


Real estate accounts for 37% of the wealth for Under 40, the largest share amongst any age group.

With more wealth being concentrated in aging populations, **how and when will the pendulum swing back?**



Macro Economy
Is the study of aggregated
demand, production etc.



Nordgaard, 2021

The foundation of most economic theory are these three principles.

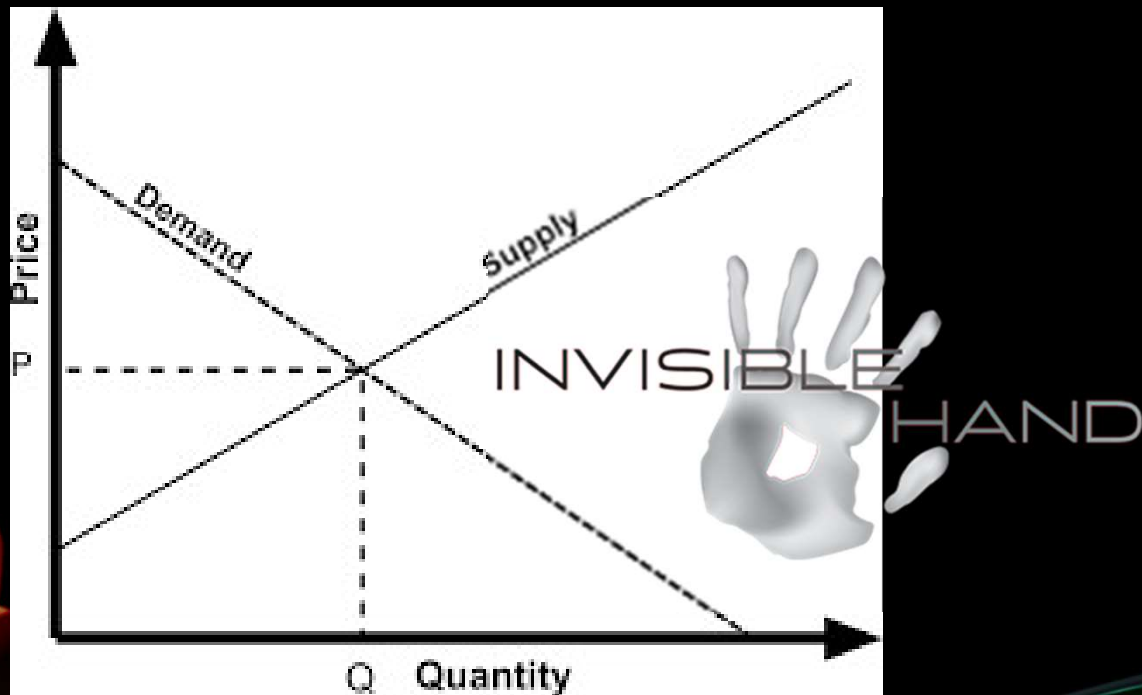
Without them economic reality is impeded

Agency theory is an example of an impediment. A director of a company, employed by the shareholders, may take decisions that favour himself

You just landed in Thailand and went to local market. What rationality parameters may be missing, when you buy your first product?

Behavioural economy is concentrated on behaviour, not rationality

Equilibrium Price



Equilibrium price: Quantity demanded equals quantity produced

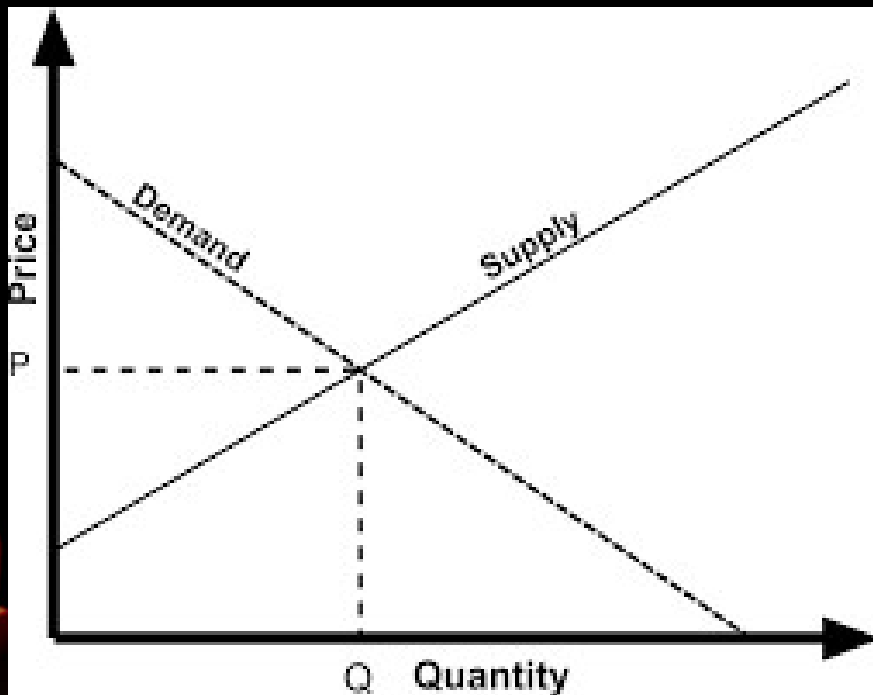
The main principle in Economic theory is the idea of "Markets clearing"

The idea is that the market economy, by itself, creates balance.

If more people want electric cars, the demand curve will move upwards and price increases. Then it becomes attractive to produce electric cars, more producers surface. Supply increases and price decreases.

The market takes care of everything.

Velocity



Equilibrium price: Quantity demanded equals quantity produced

Equilibrium requires changes in supply and demand.

If you like Cola and the price is increased 100 times tomorrow, how fast would your consumption react?

Velocity is an important element of the clearing of markets.

Some supplies and demands react with high velocity. Others, with low velocity

Competition

- Perfect Competition
- Monopolistic Competition
 - Oligopoly
 - Monopoly

Competition in a Free Market Economy is considered positive for the economy

It pushes prices downwards and increases innovation as companies are forced to constantly improve

Monopolies are considered negative for the economy as the price is not challenged.

Most countries legislation restricts monopolies



Island Economy – Free Market Economy



The market incentives actors to specialize in what they are good at.

Jens can produce a shoe in two hours and good meal in 4 hours.
Eric can produce a good meal in 2 hours and a shoe in 4 hours.
They have 6 hours available.
Both can produce pair of shoes and a good meal.

If Jens only produces shoes and Eric only produces meals, the total production will be 3 meals and 3 pair of shoes! That is an increase of 1 meal and 1 pair of shoes.

Free market economy lets everyone produce what they are good at and trade it in the open market

Command Economy



Socialism versus Capitalism

In Capitalism, the market clears itself.

In Socialism, all decisions, that are now NOT taken by the market, needs to be taken by someone else

That is typically the central institutions.

A command economy thus shares some commonalities with a dictatorship.

The challenge of the command has been that so many small allocation decisions, not taken by the market, needs to be taken by a central institute.

Could computers and data gathering be better than the market?

Quick
Decisions

Difficult
demand and
supply
allocation

Easy Capital
Allocation

Welfare State

When something is for free, demand is endless. There is thus no natural market mechanism to stop the welfare state. The demand for the Welfare state is endless. It is never fulfilled....



Adam Smith's landmark treatise on the free market paved the way for modern capitalism, arguing that competition is the engine of a productive society, and that self-interest will eventually come to enrich the whole community, as if by an 'invisible hand'.

THE INVISIBLE HAND, BY ADAM SMITH.



IT IS NOT FROM THE *GOODNATURE*
OF THE BUTCHER, THE BREWER,
OR THE BAKER
THAT WE EXPECT OUR DINNER,
BUT FROM THEIR REGARD
TO *their own interest*.

People's Choice
GREAT IDEAS

Opportunity Costs

Real profitability on an action is:

The profit you made – the profit you could have made on another choice

Every choice has an alternative costs

"I bought a share and I earned 25%!!

**"Yes..., but by investing in crypto assets, you could have made 80%...
So... ,you lost – 55%"**

An organization working on a project, should deduct profit from other possible projects that were now not worked on



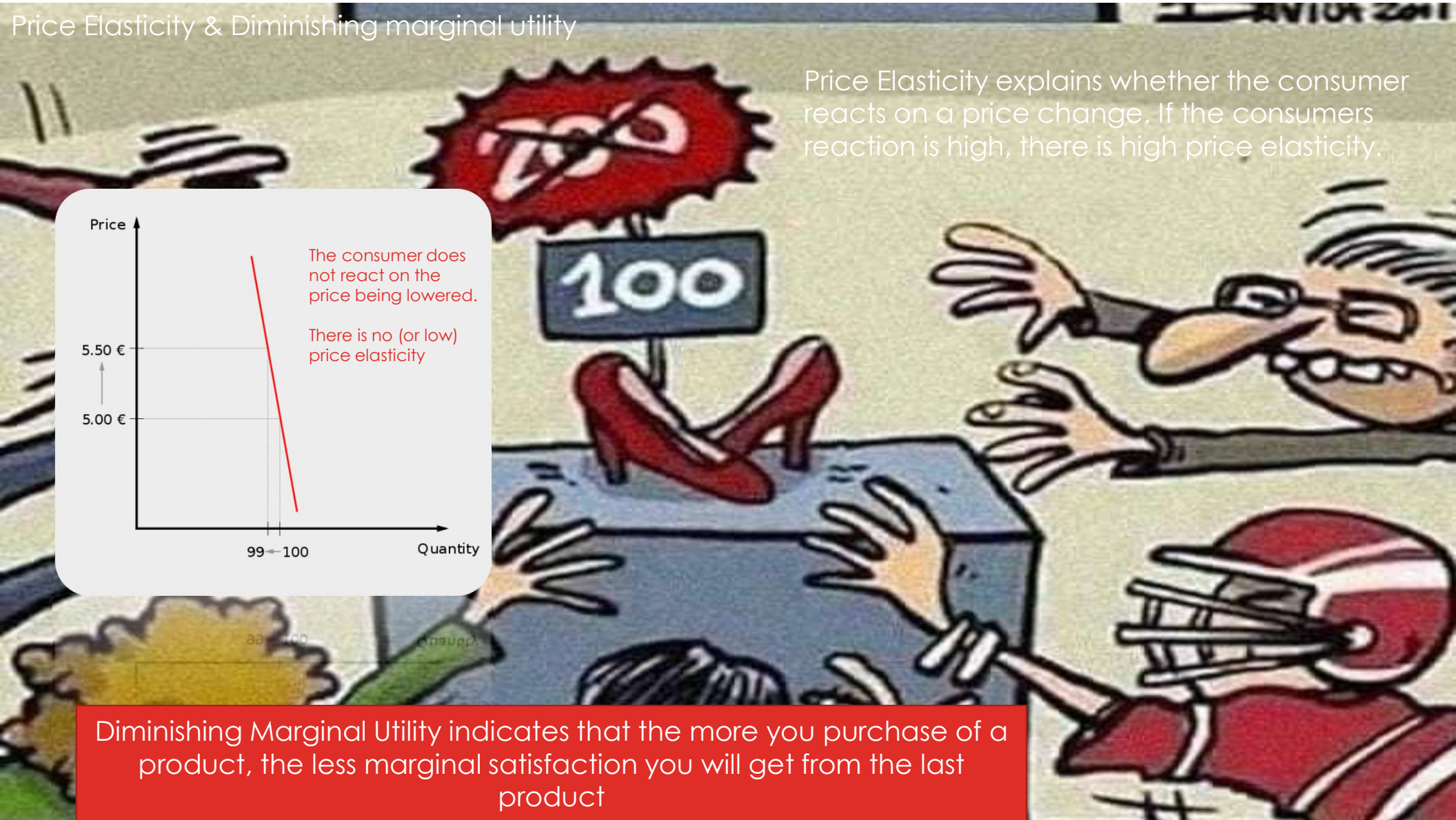
(N/A)	↑	14758.04	↑	2.58	↑	1.63%	0 (N/A)
(N/A)	↑	7456.28	↑	1.86	↑	0.01%	0 (N/A)
(N/A)	↑	13857.60	↑	0.10	↑	0.00%	0 (N/A)
(N/A)	↑	7058.67	↑	1.42	↑	0.01%	0 (N/A)
(N/A)	↑	26516.05	↑	2.49	↑	0.04%	0 (N/A)
(N/A)	↑	308705.76	↑	2.05	↑	0.01%	0 (N/A)
(N/A)	↑	17002.31	↑	0.76	↑	0.00%	0 (N/A)
(N/A)	↑	17002.31	↑	2.31	↑	0.01%	0 (N/A)
(N/A)	↑	13667.97	↑	1.97	↑	0.01%	0 (N/A)
(N/A)	↓	33148.24	↓	-1.76	↓	-0.01%	0 (N/A)
(N/A)	↑	16666.59	↑	0.59	↑	0.00%	0 (N/A)
(N/A)	↑	514.28	↑	2.28	↑	0.44%	0 (N/A)
(N/A)	↑	669.78	↑	0.78	↑	0.12%	0 (N/A)
(N/A)	↑	584.55	↑	4.55	↑	0.78%	0 (N/A)
(N/A)	↑	820.70	↑	8.70	↑	1.06%	0 (N/A)
(N/A)	↑	122.40	↑	4.40	↑	3.32%	0 (N/A)
(N/A)	↓		↓		↓	-0.06%	0 (N/A)

Price Elasticity & Diminishing marginal utility

Price Elasticity explains whether the consumer reacts on a price change. If the consumers reaction is high, there is high price elasticity.



Diminishing Marginal Utility indicates that the more you purchase of a product, the less marginal satisfaction you will get from the last product



There are several Elasticity Measures;

Price Elasticity: Demand for a specific product/Service

Cross Price Elasticity: if there is an increase in the price of tea by 10%. and the quantity demanded for coffee increases by 2%, then the **cross elasticity** of demand = $2/10 = +0.2$

Income Elasticity: The relationship between changes in income and consumption

Diminishing Marginal Utility indicates that the more you purchase of a product, the less marginal satisfaction you will get from the last product

Externality/Free Rider

If something has the price of Zero, it will not display any value in calculations. The usage will not be naturally diminished, as consumption is free

Free Rider

If investing in a good means that everyone else can enjoy without paying, would you really do it?



Market Interference – Fiscal Policy

FREEZONE COMPANY IN DUBAI



- Exemption from duties
- Exemption from import and export tax
- Exemption from corporate tax
- 100% foreign ownership
- Increase in limit of foreign employees.

Get Free Consultation:

+ 971 585791578



info@startanybusiness.ae | www.startanybusiness.ae



“A **perverse incentive** is a term for an **incentive** that has the opposite effect of that intended. **Perverse incentives** by **definition** produce negative unintended consequences.

Governments motivate
markets, thereby
manipulating demand and
supply

“Build a windmill and
income from production is
not taxed!”

Demand side Policy: Change demand
Supply side Policy: Change production

Monetary Policy



What happened to the purchasing power of Sterling, during Brexit?
Was it robbery?

1. If your countrys currency is devaluated, goods produced in the country becomes cheaper
2. Worries about devaluations may lead to... devaluations...
3. Why does bitcoin increase in value? (Among many factors...)

Macroeconomic Policy

Fiscal
Policy

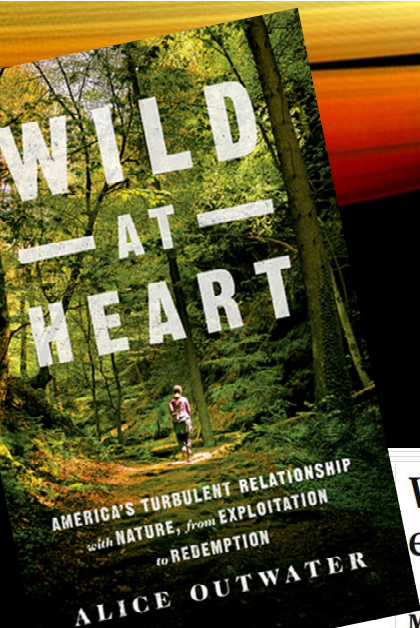
Government Expenditure
Taxation

Monetary
Policy

Money Supply
Interest Rates

Supply
Side Policy

Freeing markets
Interviening



N FILM

The Minimalists

Financial Concepts in real life! **Less Is Now**

Why single people are hurting the economy

Marriage means financial security and more spending, which boosts the economy. Are singletons selfish, or pragmatic?

Jana Kasperkevic

@kasperka

Wed 30 Oct 2013 20:16 GMT



Don't contribute to the economy by buying candy hearts, even broken ones. Photograph: Phil Degginger / Alamy/Alamy

GOSPEL DATING SERVICE

See Over Moon

Book of the Month
Book of the Week
Book of the Day
Book of the Year
Book of the Month
Book of the Week
Book of the Day
Book of the Year



Think about everything you learned so far

1. What economical concepts do you recognize in the podcast about dating?

2. Pick another lifestyle trend and explain its impact on economy!

Inflation

Åbn / gem som...

Excel (*.xlsx)

☐ Inkl. koder i sep. kolonner

☒ Inkl. fodnoter mv.

Rediger tabel

Pivot: Drej med uret



Beregn

Grafisk præsentation

Kurvedigram



Sorter data



Udskriv

Forbrugerprisindeks (2015=100) efter enhed, varegruppe og tid

	2005M03	2007M03	2021M03
Indeks			
01.1 Fødevarer	80,1	83,4	105,1
08.3 Teletjenester	120,7	120,2	79,7

Nominal prices shows the nominal price increase. Inflation is measured by calculating a "basket" of products, which the average consumer buys.

What is the conclusion on the inflation on the two products shown above?

Financial Policy

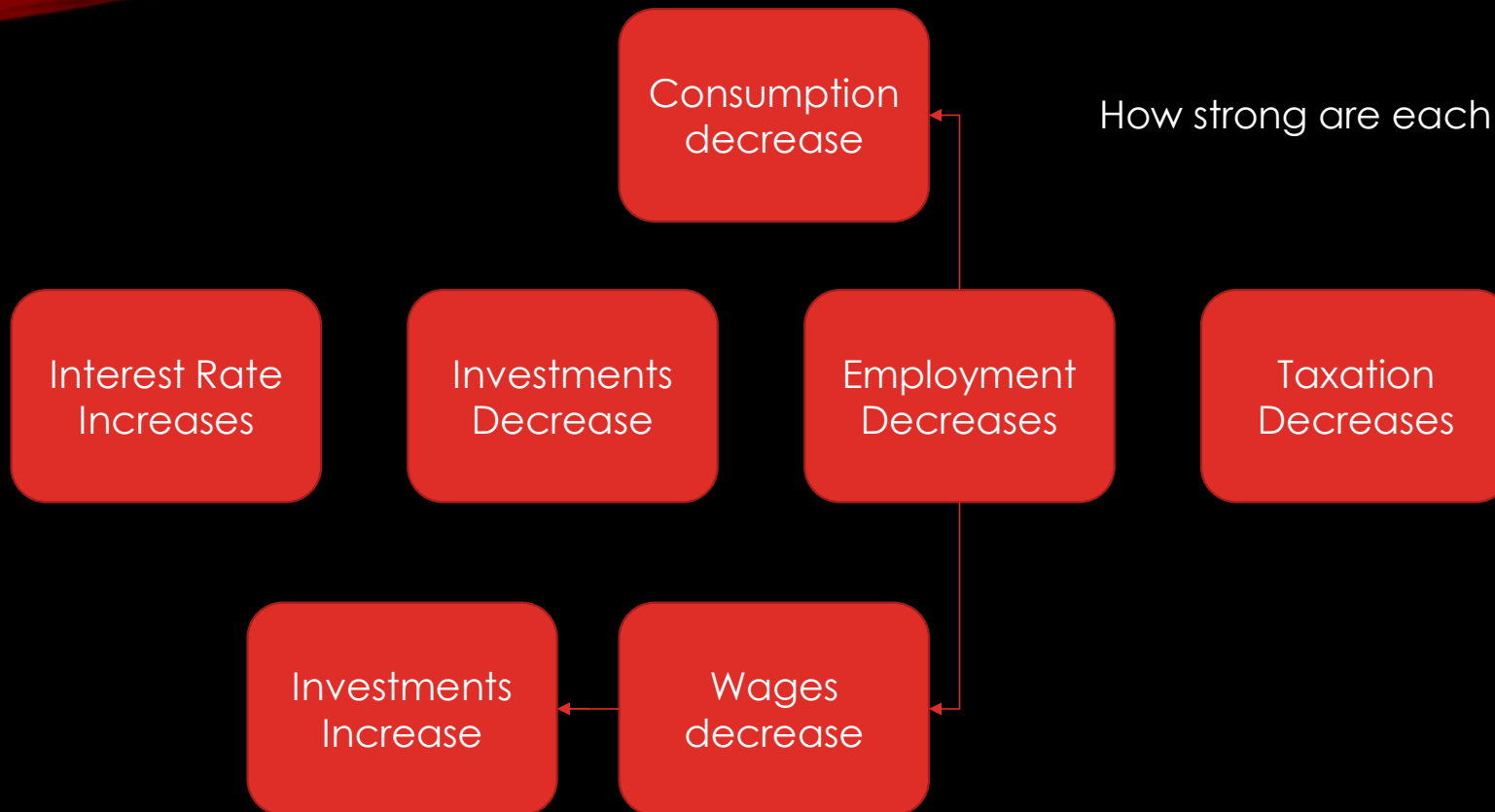
A silver Mercedes-Benz SL convertible is parked on a paved surface. The car is shown from a side profile, facing left. The background features a cloudy sky, a distant bridge, and a flat landscape. The text "Financial Policy" is overlaid in the top left corner in a red, sans-serif font.

1. Consumption leads to costs
1. Investments are not for immediate consumption. An investment is not a cost. Only consumption is a cost
2. The profit & Loss statement shows consumption

Marginality

- A company sells 200 products a month. The production price is 1 USD a piece. The sales price is 5 USD per piece. The company can produce 400 pieces.
- It is being suggested that lowering the price to 4 USD will result in an increase in sales to a total sale of 300 units.
- Would you lower the price? What is the marginal revenue? The marginal earning?
 - Why is marginal views important?

Factor Effects (Multiplier)



GDP

Åbn / gem som...

Excel (*.xlsx) >

☐ Inkl. koder i sep. kolonner

☒ Inkl. fodnoter mv.

Rediger tabel

Pivot: Drej med uret >



Beregn

Grafisk præsentation

Kurvediagram >



Sorter data



Udskriv

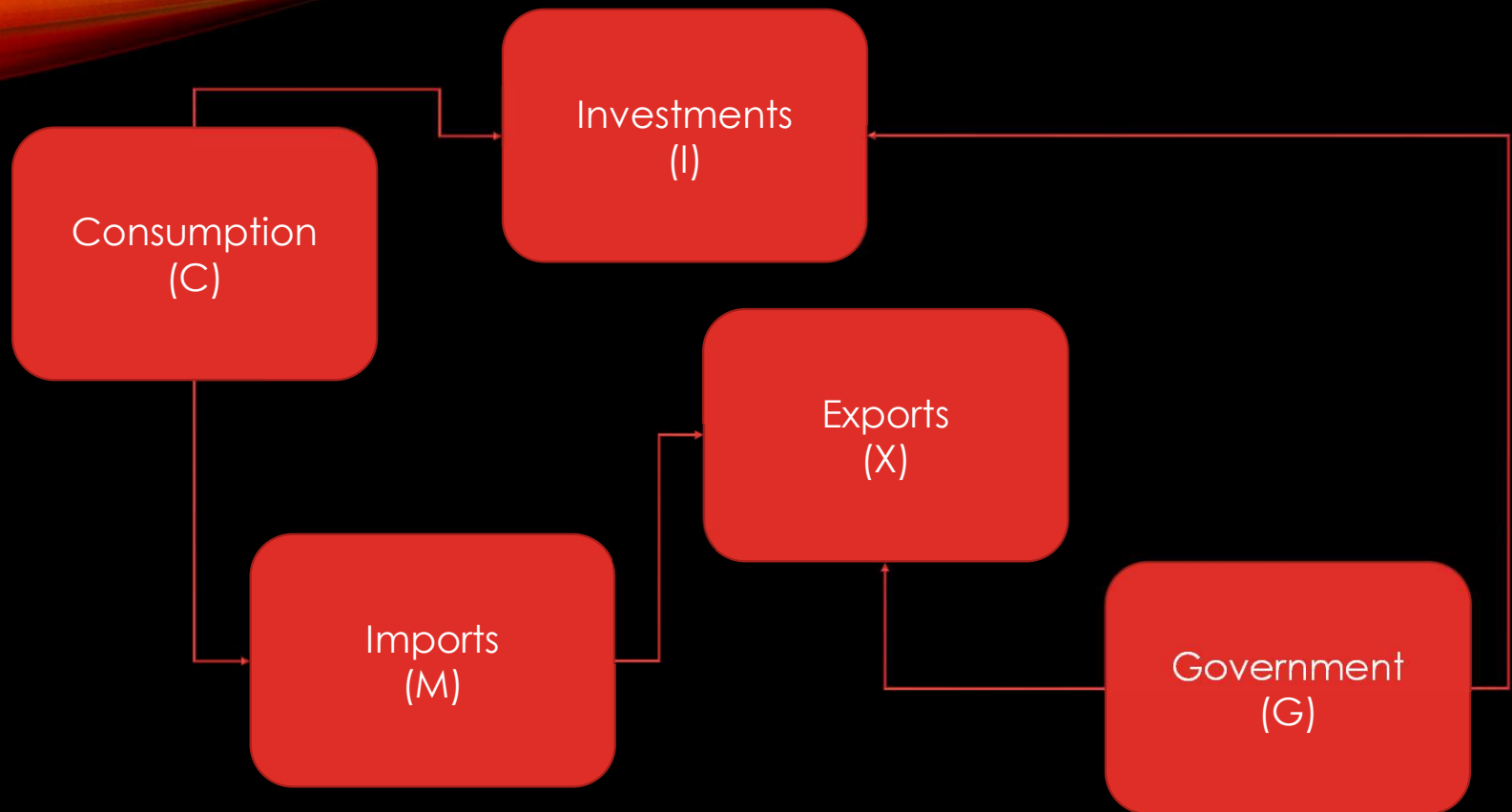
**Forsyningsbalance, bruttonationalprodukt (BNP), økonomisk vækst,
beskæftigelse mv. efter transaktion, prisenhed og tid**

	2018	2019	2020
B.1*g Bruttonationalprodukt, BNP			
Løbende priser, (mia. kr.)	2 253,6	2 335,0	2 323,7
2010-priser, kædede værdier, (mia. kr.)	2 094,2	2 153,9	2 095,0

GDP (BNP in danish) is the value of the total output in the country, either in nominal prices or real prices

How would you explain the development in 2018,/2019 and 2020?

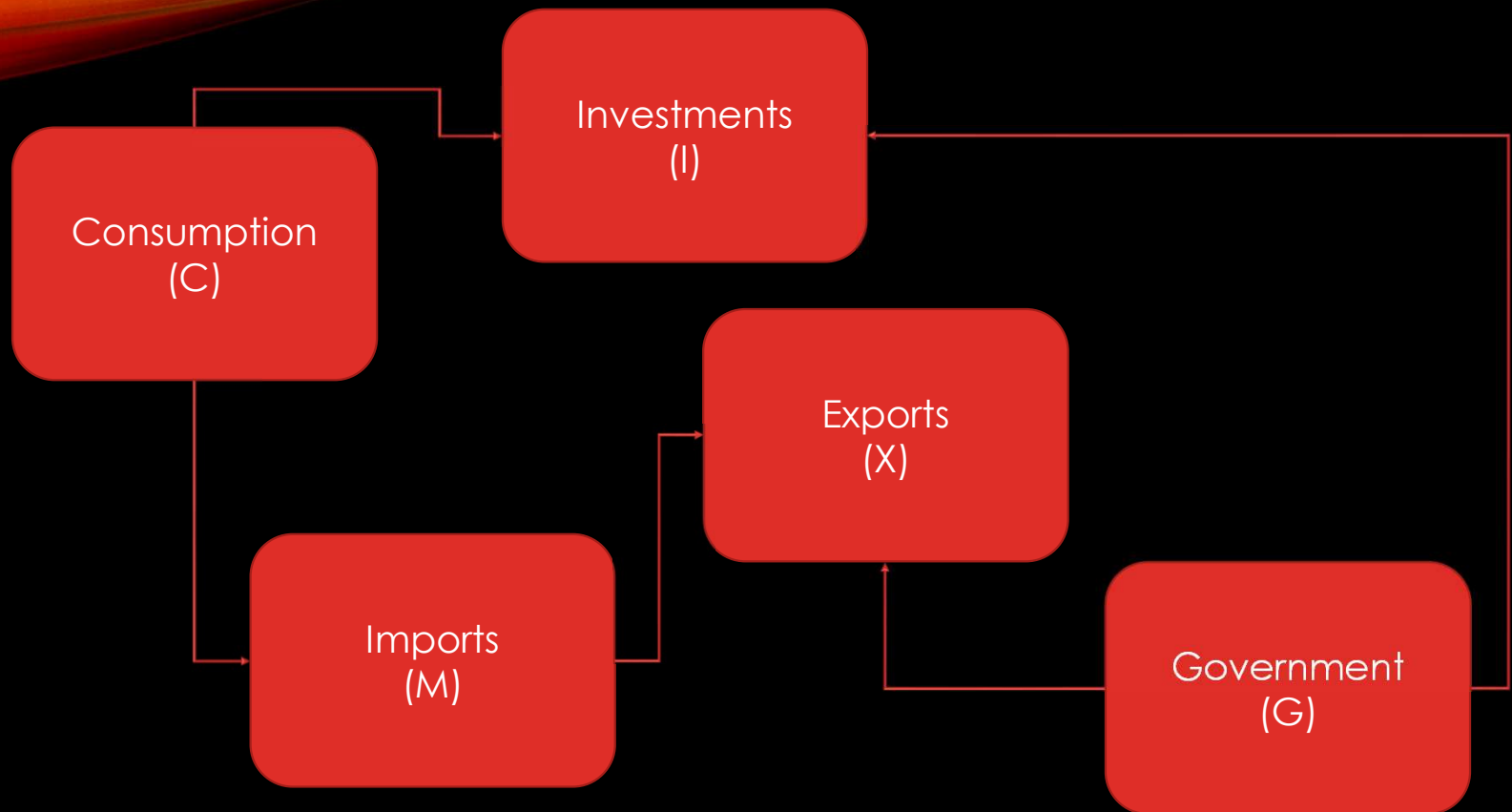
Aggregate Demand



$$AD = C + I + G + X - M$$

*Du skal kunne nationalregnskabets formler

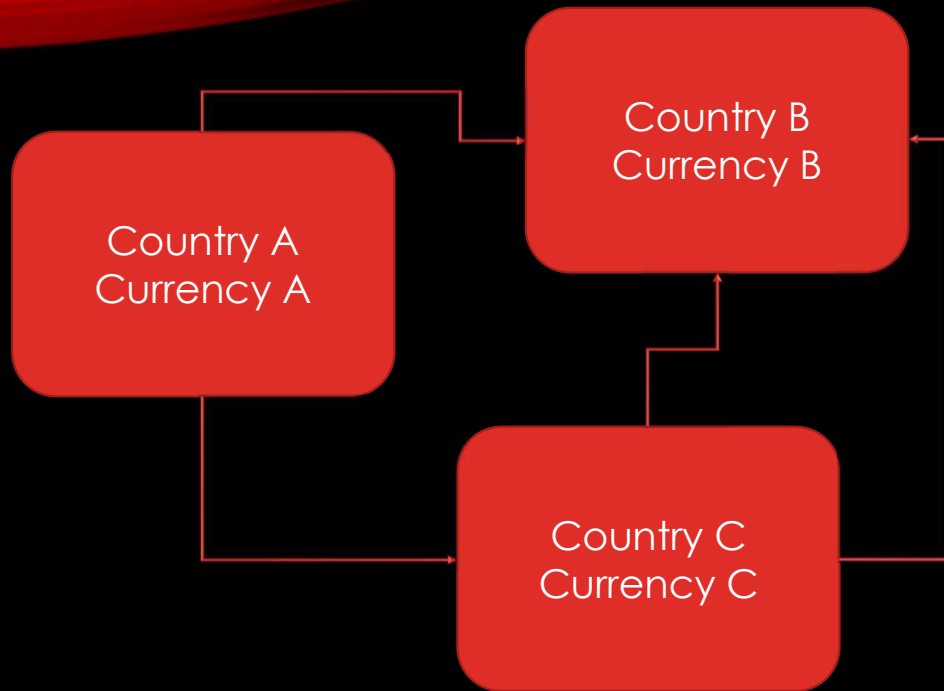
Aggregate Demand



$$AD = C + I + G + X - M$$

*Du skal kunne nationalregnskabets formler

Balance of Payments (Account)



First Stage: All currencies are equal

Country A sells for 100
Country B sells for 800
Country C sells for 400

What will happen to the exchange rate?

Compound Interest

Compound Interest										
Peter Nordgaard										
Interest p.a.	8%									
Starting deposit	100									
Year	1	2	3	4	5	6	7	8	9	10
	108	117	126	136	147	159	171	185	200	216
	108%	117%	126%	136%	147%	159%	171%	185%	200%	216%

**At an annual interest rate of 8%, your deposit doubles within 9 years.
If you keep your money at home, in a drawer, for nine years, then you have lost
50% of your money**

Derivates

Forward/Futures

Contractual terms are set and an obligation exist
Often leads to standardization of terms

Options

Contractual terms are set and a right exists

Swaps

Swapping different contracts against each other

**Peter Nordgaard, 2018, Hanoi*

Nominal and Real figures

Lær dig Indekstal - Peter Nordgaard						
	2015	2016	2017	2018	2019	
Income (Nominal)	100,00	102,00	104,04	106,12	108,24	
<i>Indeks</i>	<i>100</i>	<i>102</i>	<i>104</i>	<i>106</i>	<i>108</i>	
Inflation		2,0%	2,0%	2,0%	2,0%	
Income (Real - 2015 Prices)	100,00	100,00	100,00	100,00	100,00	
<i>Indeks</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	

Nominal values are the absolute values in the current year. Real values are corrected for inflation, so that they represent a value that has the same purchasing power

Stock Markets

Shares
Ownership

Bonds/Convertible
Bonds
Debt/Rights to Ownership

Shortselling

Bull
Bear
Certificates

All business are either a business for which a physical person is legally responsible or a business created as a legal unit. A legal unit can be named A/S, Aps, AB, SA, Ltd and has the ability to meet in court, although presented by a physical person

Net Present Value

All business are either a business for which a physical person is legally responsible or a business created as a legal unit. A legal unit can be named A/S, Aps, AB, SA, Ltd and has the ability to meet in court, although presented by a physical person

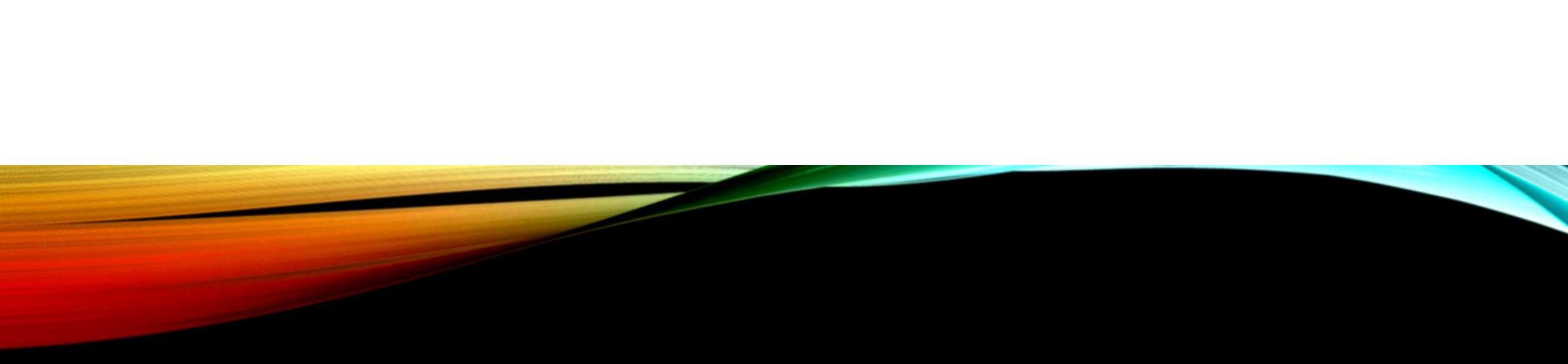
Data Conclusions

Moral Hazard

When buying an insurance for your bike makes you less worried about your bike getting stolen, which will lead to more bikes being stolen.
Insurance prices are (at first, at least), set by the data indicating the number of bikes being stolen, without people now buying insurance
Or
Data is a mixture of bikes being stolen, owned by insured and non-insured people

Macro/Micro

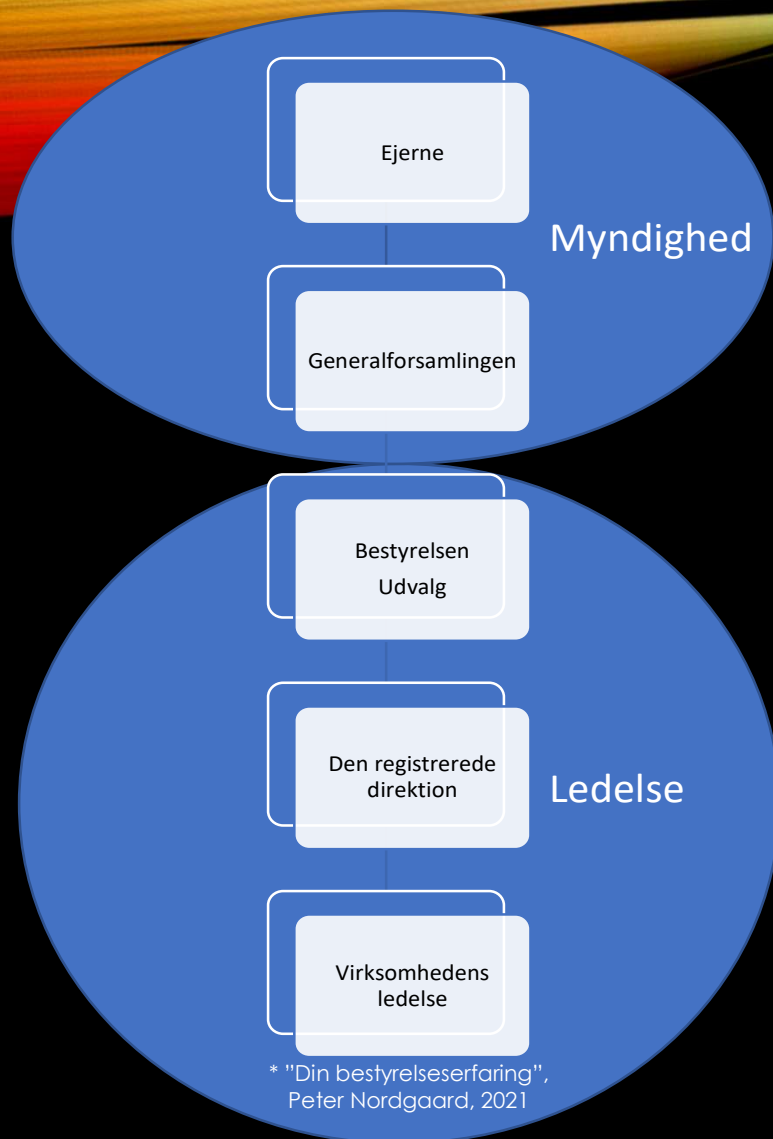
Micro Economy
Is the study of individual
companies and individuals



Personally lead
business

Legal Vehicles
"Ability to go to Court"

All business are either a business for which a physical person is legally responsible or a business created as a legal unit. A legal unit can be named A/S, Aps, AB, SA, Ltd and has the ability to meet in court, although presented by a physical person



GOVERNANCE STRUCTURE

The highest authority in a company is the General Assembly.

The General Assembly elects the Executive Board

The Board appoints the Executive Management

The Executive Management appoints the management.

1. Controlled
2. Identifiable
3. Future Cashflow

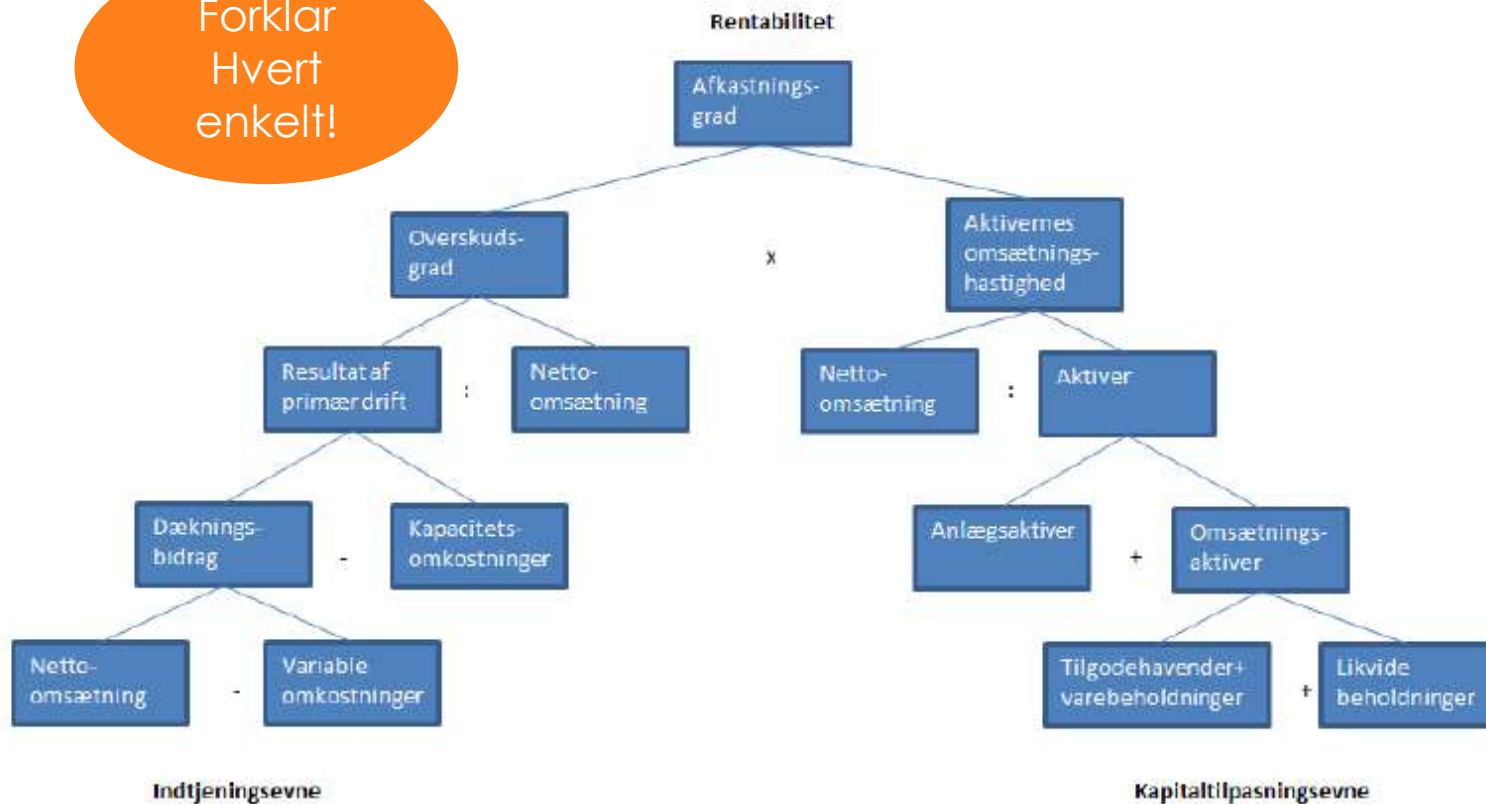
ASSETS

-
- Tangible Assets (Materielle Aktiver)
 - Intangible Assets (Immaterielle Aktiver)
 - Fixed Assets (Anlægsaktiver)
 - Current Assets (Omsætningsaktiver og likvide aktiver)



Du Pont modellen

Forklar
Hvert
enkelt!



Engelske begreber – Primær drift: EBIT

EBITDA - (Earnings Before Interest Taxes, Depreciations and Amortizations)

EBITA – EBIT (before Interest and Taxes)