### International Forum on Ecological Civilization Jinan, Shandong Province, October 31, 2019

**Chinese Academy of Social Sciences** 

Fair distribution as an adequate characteristic of

Ecological Civilization –

Nine levels of socio-ecological justice 
DISTRIBUTION MATTERS

公平,就是绿色社会的一部分

社会生态公平的就具

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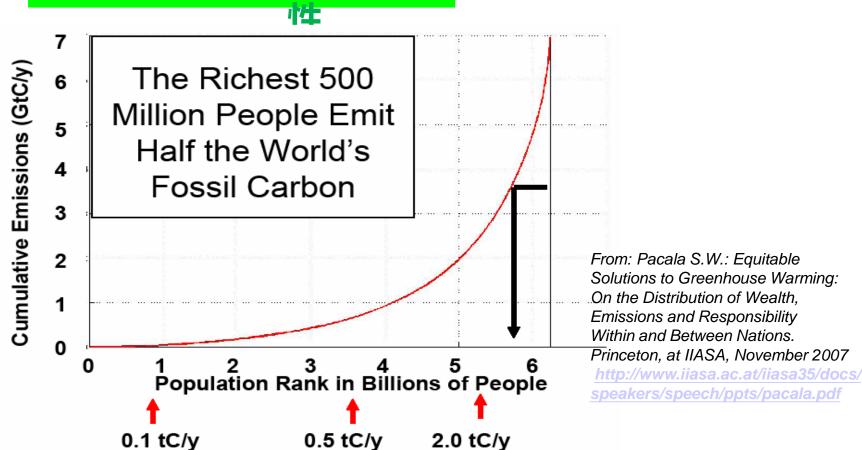
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### Causation of Climate crisis and global distribution 气候危机和国际分配的因果律





### Correlation between income and emissions 收入和排放的相关性

#### Socially differentiated emissions per capita

Empirical correlation of stratification along income for consumption and emissions per capita

Evidence of <u>differentiated emissions/consumption of the traffic services</u> a day for Austria: quartiles (income):

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1 <sup>st</sup> quartile	20 km
2 <sup>nd</sup> quartile	40 km
3 <sup>rd</sup> quartile	53 km
4 <sup>th</sup> quartile	80 km

(see: Steininger K., Gobiet W. (2005): Technologien und Wirkungen von Pkw-Road Pricing im Vergleich, Wegener Center Graz, Bericht 1/2005, p 20f

### Climate change as the "greatest market failure" 气候危机是市场最大的错误(STERN)

- Is Climate change" the "greatest failure" of mainstream economics?
- If, according to the Sir Stern report climate change is the "greatest market failure of history", then mainstream economics has been involved essentially at the biggest "market failure"
- Strange: NORDHAUS as "Nobel prize winner"!
- Profit in mainstream economics often is a premium for "risk" to make capital available
- Now in some dialectical turn the profit mechanism and the capital accumulation turned back the risk by the CO2 accumulation in the atmosphere - an <u>absolute socialisation of risk</u>
- By the "risk" of profit the global risk for mankind and civilization has developed to the largest extent.

"This changes everything - Capitalism vs

climate"



#### 资本主义反对气候, 印象最大

There are many arguments that a solution of climate change under capitalist market conditions will not be possible

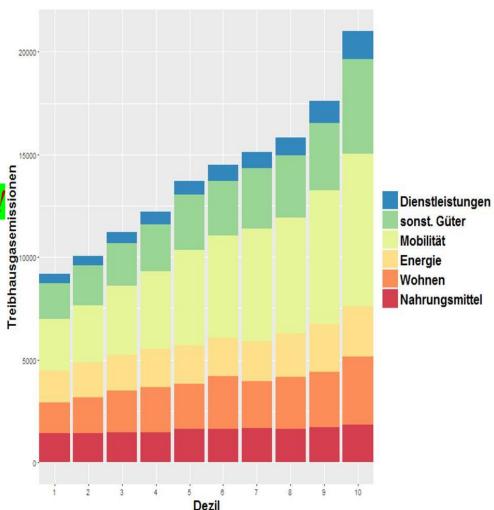
# GHG emissions along deciles (household income) – Austria for different spheres 温室效应气体的使命根据家家的收入,奥德利

Blue: services

Dark green: various Light green: mobility Light orange: energy Orange: habitation

Red: food

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Correlation between income
(Wealth) and exposure to negative
environmental effects

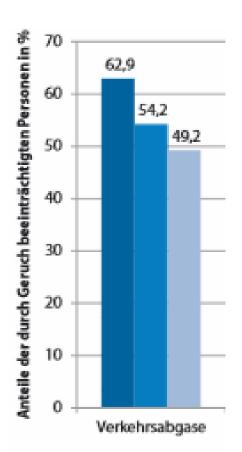
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收入和不好环保后果的关系

Socially differentiated <u>exposure</u> Empirical correlation of stratification along income for exposure

- E. g.: Harassment by traffic exhaust emission different for income and wealth
- Persons at risk of poverty evaluate their exposure to negative environmental effects in all fields (noise, air quality, green space...) worse to others

# Harassment by traffic exhaust emissions Low income — medium income — high income Austria DISTRIBUTION MATTERS!

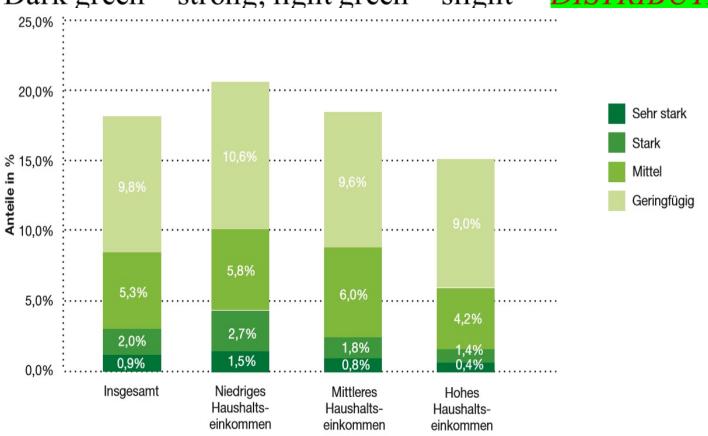


Aus: Prettenthaler Franz, Habsburg-Lothringen Clemens, Sterner Cornelia (2008): Soziale Aspekte von Climate Change Impacts in Österreich, 2008. S.10

<sup>\*</sup>Auf "Äquivalenz"-Basis: Bei Einkommen und Ausgaben werden Kinder in den Haushalten differenziert berücksichtigt

## More general: Harassment by smell and exhaust emissi - along income - Austria

Total income – low income – medium income – high income



### Implication health

Health conditions differ substantially along classes and strata:

So e.g. in Germany the expectation of life in the upper quintile of income is 8,3 years longer for women and 10,8 years for men than in the lowest quintile,

and the expectation of healthy years differs still more the gap is 13,3 years for women and 14,3 years for men

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#### 做有效果的气候政策对老百姓的好处多

Concrete distribution issues are underexposed in the climate policy discourse.

If <u>lower income groups</u> are relatively more disadvantaged by different forms of socioeconomic and socio-ecological inequality,

these groups will experience an increase in the socioecological burden when climate change continues

On the other side SO lower income groups WILL EARN MORE GAINS BY EFFECTIVE CLIMATE POLICY DISTRIBUTION MATTERS!

# Dimensions of distributions 分配的规模

- Social-economic,
- Socio-ecological,
- Spatial,
- Temporal or Intergenerational dimension

The socio-ecological dimension can be divided again into nine levels.....

### Nine levels of the socio-ecological dimension of distribution

(Pro rich pro-poor) 社会环保分配的九层,有钱的人和老百姓

- 1. Access and use of "natural services"
- 2. Vulnerability/ exposure of damage and environmental degradation
- 3. Risk and uncertainty
- 4. Causation of environmental damage
- 5. Costs/burden of environmental measures and possibilities to transfer costs (incidence of taxes)
- 6. Possibilities for influencing environmental policy
- 7. Positive impacts of environmental policies
- 8. "Co-benefits" of environmental policies : indirect effects
- 9. Adaptation effects to positive changes of the environmental situation (e.g.: higher prices for houses)

### 气候政策对老百姓有好处

7 of these 9 levels of the socio-ecological dimension of distribution are asymmetric in favor of upper income levels: with pro-rich effects:

Only level 6 and 7 - the positive impact of environmental and climate policies and cobenefits are pro-poor.

So the overall impacts of climate policy are basically pro-poor, especially when at the costs of environmental measures (e. g. by taxes) the pro-rich effects can be mitigated, eliminated or reversed by a per capita bonus or other compensations

## Basics of climate policy 气候政策的基本

2°C target
Copenhagen
accord & Paris
Treaty

because of

uncontrollable implications when > 2°C

→ fixed volume of future GHG emissions

How to allocate this volume of remaining GHG emissions? = Which distribution among countries and persons?

### Missing link of climate policy 气候政策的大问题

#### 2°C target

(Copenhagen Accord & Paris Treaty)

→ fixed volume of future GHG emissions

#### **CBDR**

(Rio 1992 and Rio+20)

basic distribution principle

(Common but differentiated responsibility)

**=X** (but which concrete implementation?)

# The equation for the missing link of climate policy

#### 气候政策大问题的方程

#### 2°C target

(Copenhagen accord & Paris Treaty)

fixed volume of future GHG emissions



#### **CBDR**

(Rio 1992 and Rio+20)

basic distribution principle (Common but differentiated responsibility)



= climate stabilization

#### The missing link of climate policy:

### Equal rights!

#### 2°C target

(Copenhagen accord & Paris Treaty)

气候大问题的答案就是平权

→ fixed volume of future GHG emissions



#### **CBDR**

(Rio 1992 and Rio+20)

( Common but

Equal rights

diff



### Concepts of equal rights in the context of climate change (1) - 气候和公权之中的关系第一部分

- Heuristic approach
- The starting points for the view of equality and fairness in connection with the climate change can come e. g. from:
- **★ ❖** ethical moral reasons,
- **冷** ⇒ obligations from international documents,
- **★ ★** concepts of the sustainable development.
- Or from the fact that necessary international contracts simply will not come into being otherwise
- Fundamental principles of distribution
- can be e. g. (pre-scientific/political/ethical):
- **>< ❖** Parity
- >> Proportionality
- **> > \( \Delta \)** Priority

### Concepts of equeal rights in the context of climate change (2)气候和公权之中的关系第二部分

- In principle we can see procedual, effort-oriented and results-oriented principles of equality and fairness
- Oxfam e. g. uses 3 princples:
  - Fairness,
  - capability,
  - simplicity
- CICERO-ECZ stress
  - guilt,
  - capacity und
  - need

#### TAMARA to replace TINA

《有好多,真确的办法》要代替《除了资本主义没有别的办法》的思想

We have to fight the hegemony of TINA (There Is No Alternative – to neoliberal policy) and replace it by TAMARA (There are many and real alternatives).

A positive coefficient of hope for change to sustain livelihood in relation to paralyzing fear can reflect the dynamics

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*XIEXIE!* 

