Let's Recall...
Popular Metapher for Conflicts: the "Prisoners' Dilemma"

Shall I confess?

Shall I remain silent?
Separate Grilling, no Contact!

leniency?

I'll confess!
Separate Grilling, no Contact!

I’ll confess!

I’ll confess!
Separate Grilling, no Contact!

both confess → no leniency → shit happens!
**Prisoners' Dilemma**

- **“cooperative” behaviour**
  - remain silent

- **“non-cooperative” behaviour**
  - confess

Strategic equilibrium
Climate Problem = Prisoners' Dilemma ??

- emit less GHG
- business as usual
- "non-cooperative" behaviour
- confess
- "cooperative" behaviour
- remain silent
Climate Problem = Prisoners' Dilemma !!

- Binding agreements are possible!
- Emit less GHG
- Business as usual
- "Cooperative" behaviour
- Remain silent
- "Non-cooperative" behaviour
- Confess

Jobst Heitzig    Escape from the climate prison
ESCAPE! But Who Will Go First?

The threatening climate change

The Prisoners (Selection)
ASSUME TWO SUFFICE TO OVERPOWER HIM...

Let the others solve the problem for me...

A possible (but inefficient) coalition
Then It's Unclear Who Will Do It...

Let the others solve the problem for me...

Another, more efficient, possible coalition
Each will try to make the others go first...

Let's roll!

When two people agree, a third rejoices
This is called „Free Riding“!

When two people agree, a third rejoices.
But the best coalition would be ALL THREE!
Coalition formation
= a dynamic process with uncertainties

START
no cooperation yet

transition probabilities?

20%?

50%?

10%?

100%?

intermediate state (?)

stable end state (?)