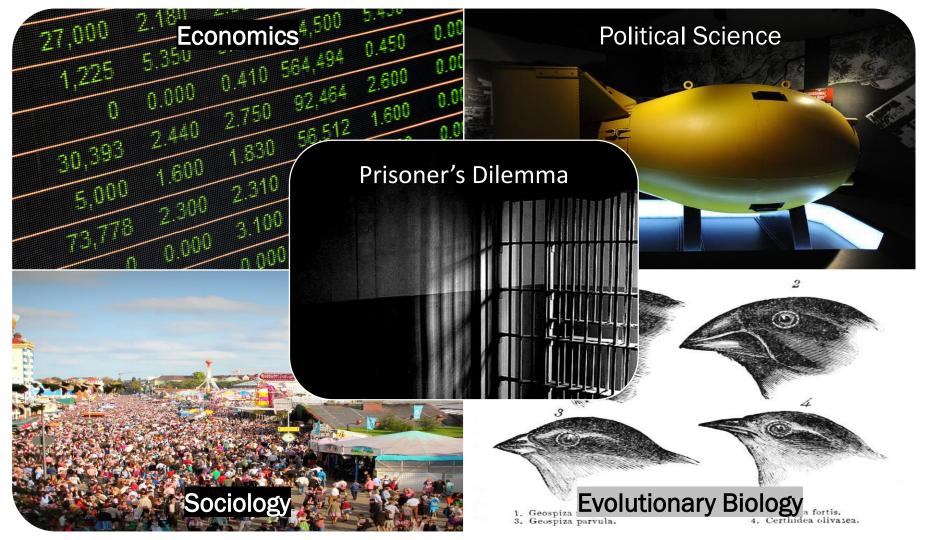
GEQ1000
Economics
(Social Science)

2.4 Applying the Model



Use the model to understand real world situations

Applying the Prisoner's Dilemma?







If everyone arrives just one hour before the store opens...

Chance of getting the phone stays roughly the same

Less time wasted in queue



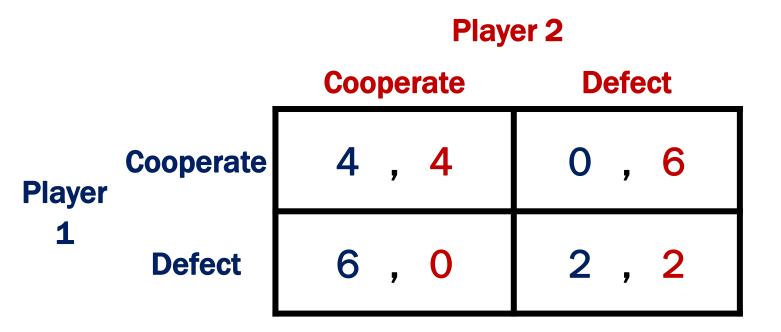
If everyone <u>else</u> arrives just one hour before the store opens

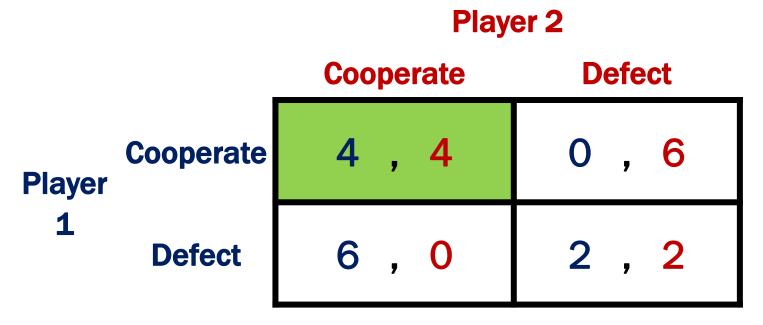
...and <u>you</u> arrive two hours ahead, you increase your chances!



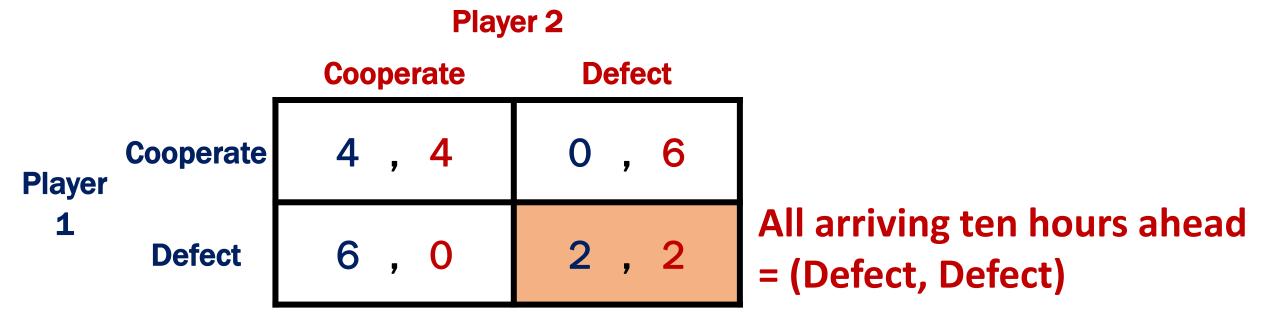
So...

...everyone arrives ten hours ahead!





All arriving one hour ahead = (Cooperate, Cooperate)





They should have confessed, but...



La Mafia non esiste.

La Mafia

Prisoners' Dilemma Lab Experiments

In Prisoners' dilemma lab experiments, <u>people</u> <u>tend to cooperate around half the time</u>

Reject the Model?

Not necessarily

There is no model that will predict perfectly in the Social

Sciences

Other factors may be more powerful at times

Failure of the model to predict can be instructive

Breaking the Prisoners' Dilemma

La Mafia non esiste.





Culture

Morality

Biology

But these factors only take us so far...

Even if cooperation is observed, we should be aware that it is <u>fragile</u>.

We need to use <u>laws</u>, <u>rules</u>, <u>and monitoring</u> to change the payoffs



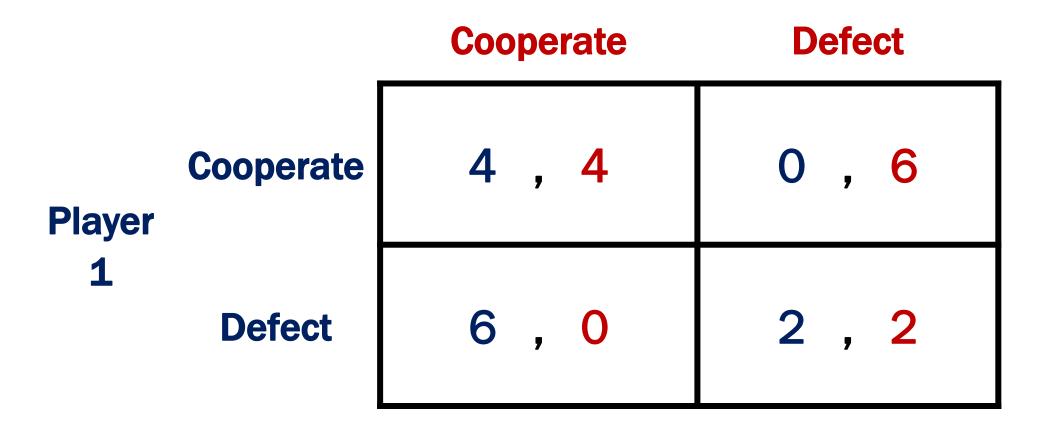


A Good Model is ...

Simple

Simple

Player 2





Simple

Insightful

AN

INQUIRY

INTO THE

Nature and Causes

OF THE

WEALTH OF NATIONS.

By ADAM SMITH, LL.D. and F.R.S. Formerly Frontier of Monal Philosophy on the University of George W.

IN TWO VOLUMES,
VOL. 1.

LONDON

PRINTED FOR W. STRANAN; AND T. CADELL, IN THE STRANG.
MD(CLEEVI.

Player 2

		Don't Confess	Confess
Prisoner 1	Don't Confess	-6,-6	-10 , -3
	Confess	-3,-10	-8 ,-8







Simple

Insightful

Highly applicable

Highly Applicable

Player 2

Don't Confess

Confess

Don't Confess Prisoner

Confess

-6 , -6	-10 , -3
-3,-10	-8 ,-8











