



IPATH

Welcome to the
Collaboration Hub

**The effects of the
Pandemic
on our cities**

200626 Pedro B. Ortiz





Medieval plagues



London Cholera Epidemic 1864



“Spanish” (Arkansas) Flu – 1918-19

50 million dead



AUSTRALIAN WAR MEMORIAL

W18510

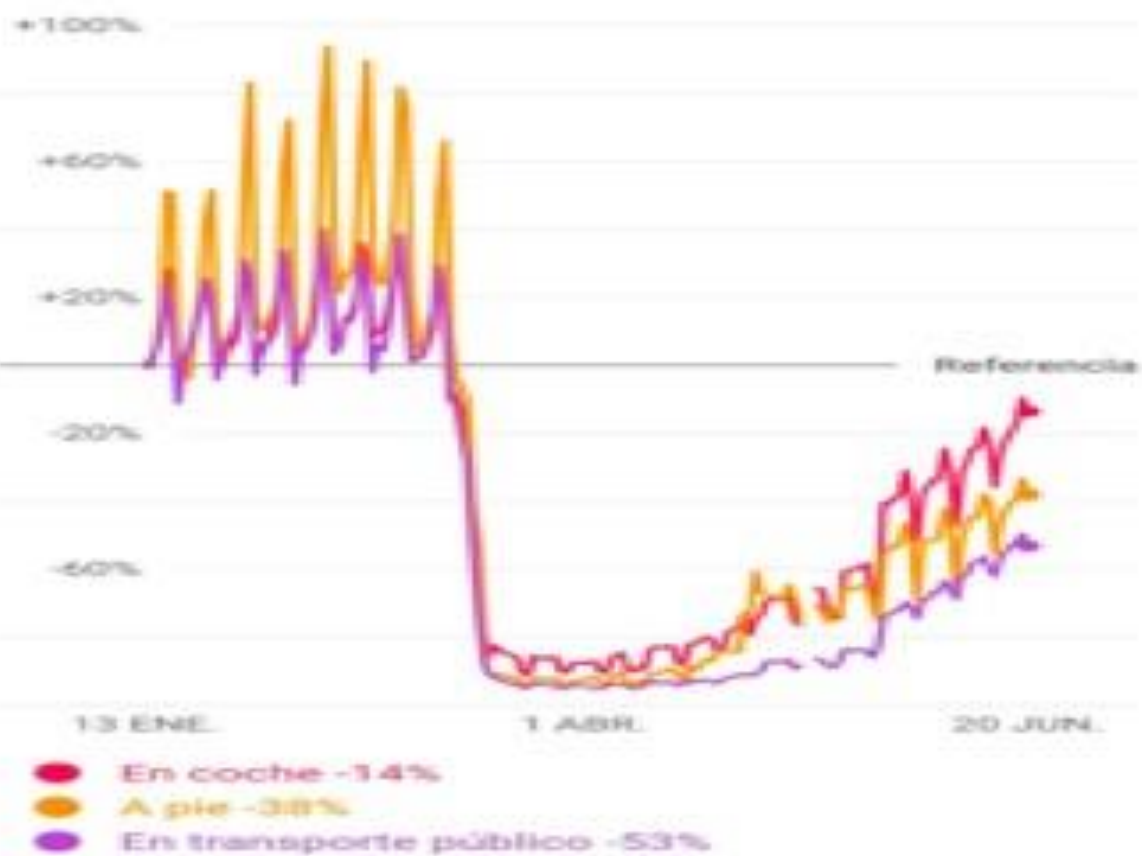
World War I: 1914-18

40 million dead



Buscar

Madrid, Community of Madrid, Sp



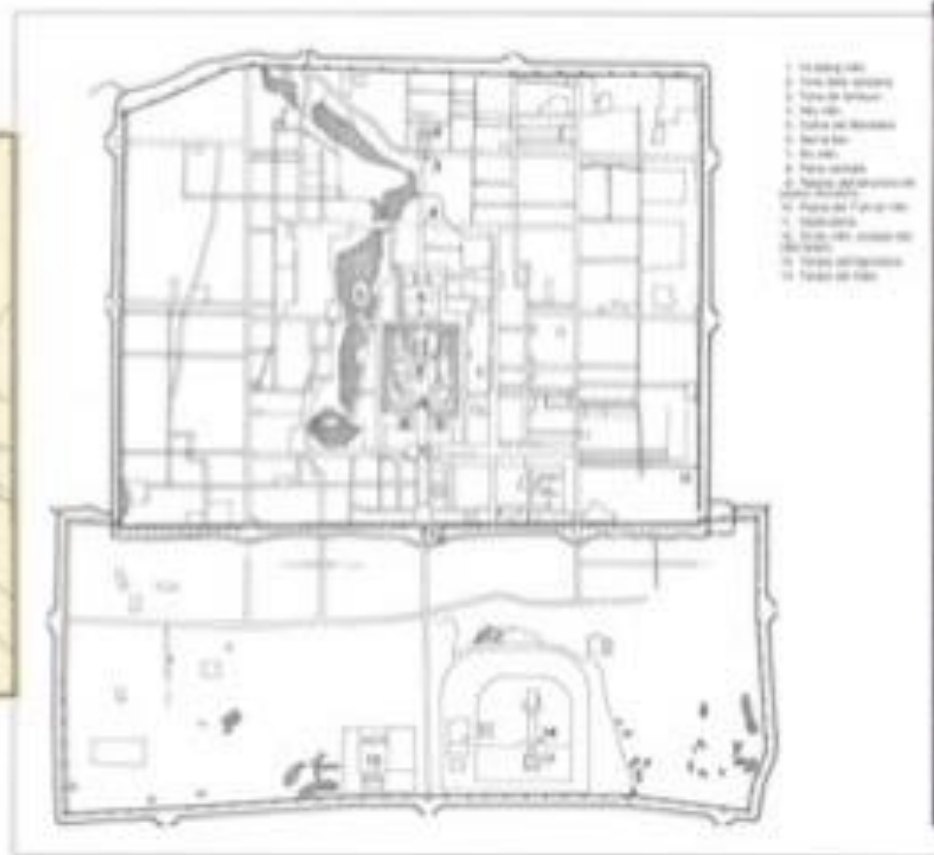
Roma
1m.

-

Beijing
700.000

-

Londres
600.000/1m.



World Population Distribution: 2019

URBAN (BY POPULATION) & RURAL

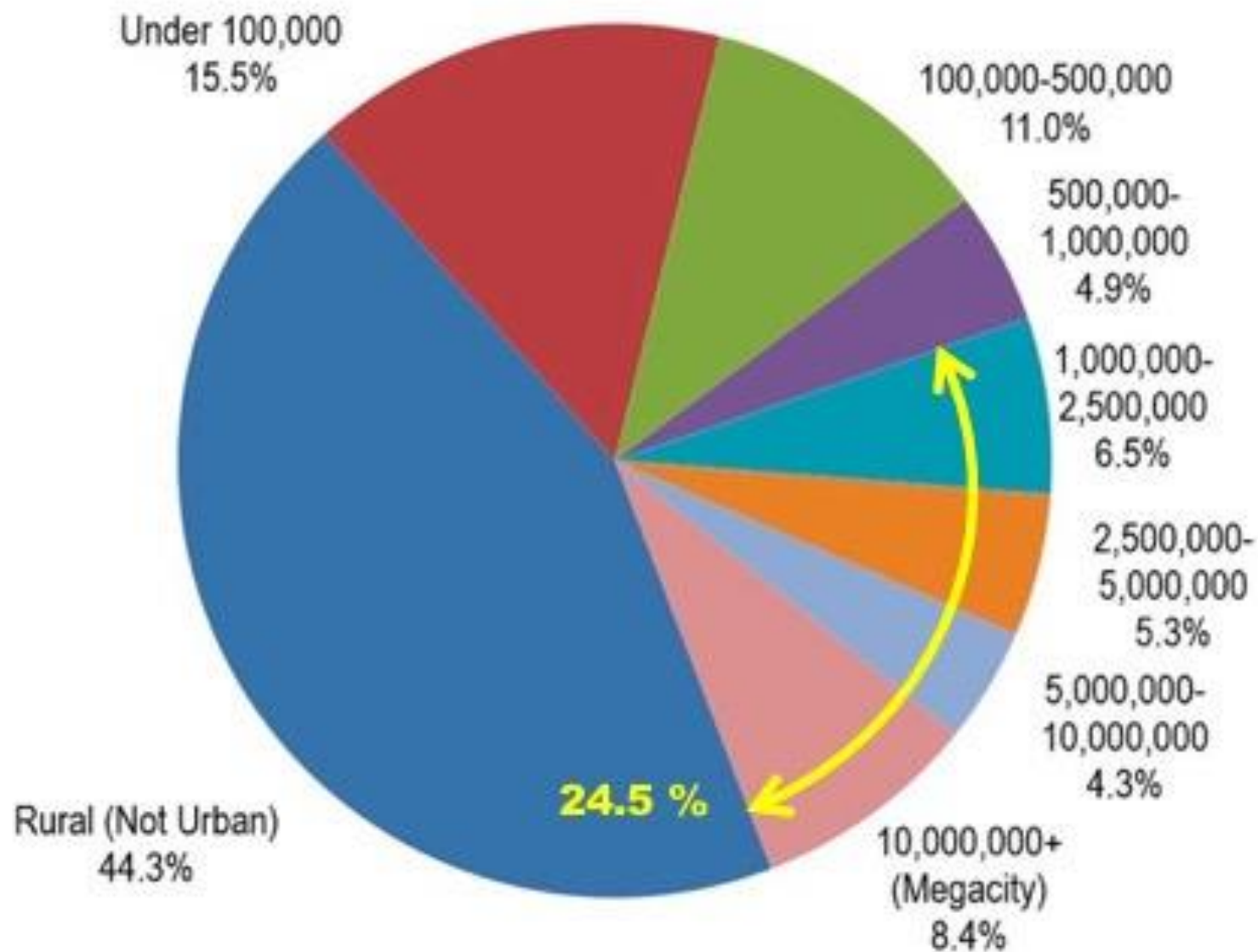
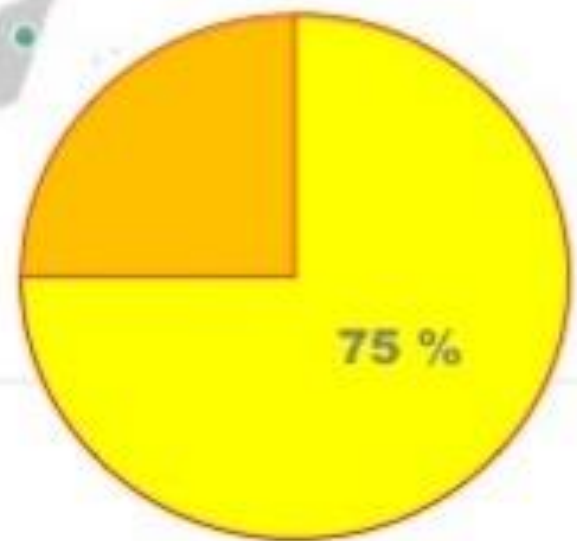
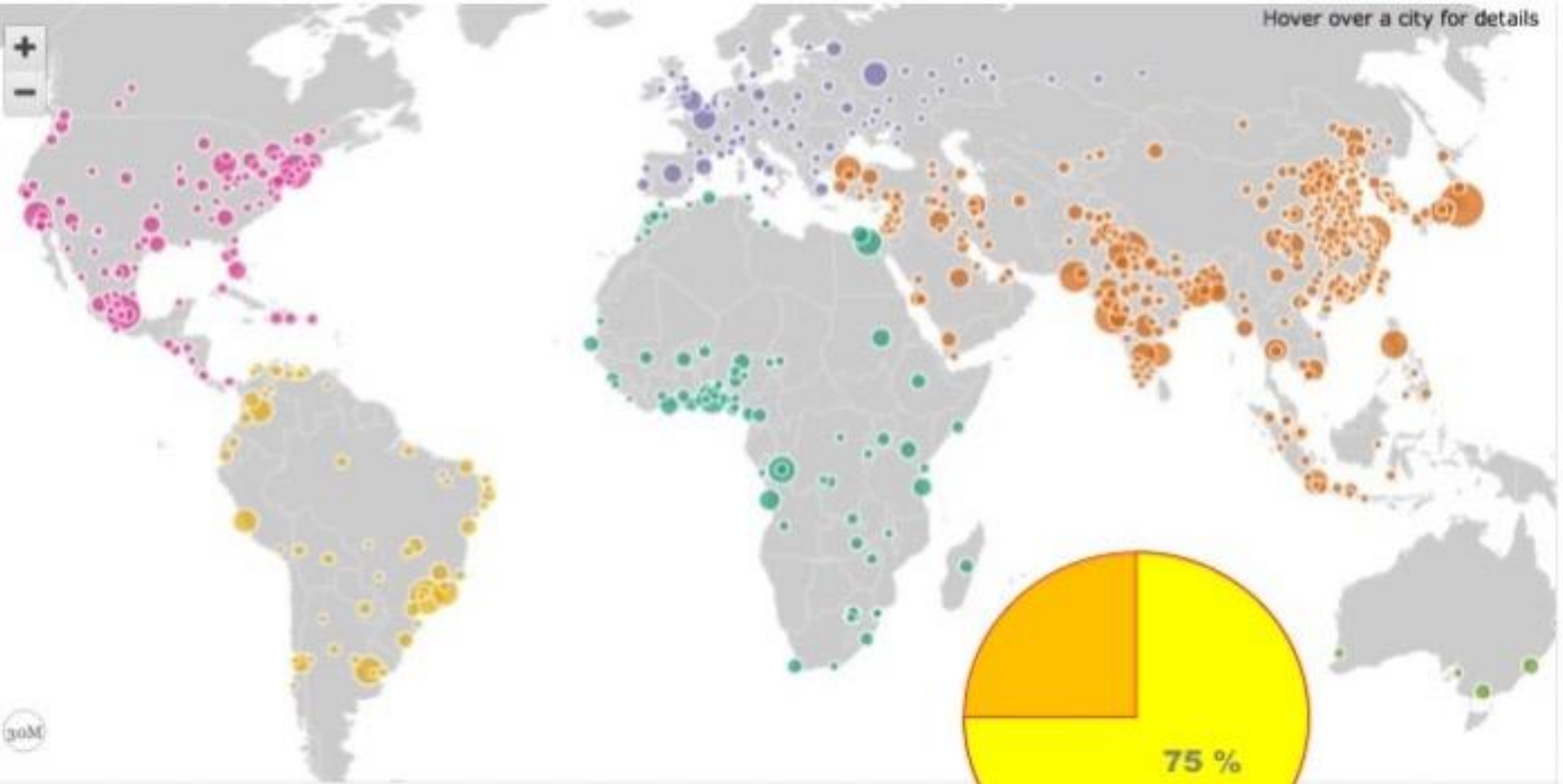
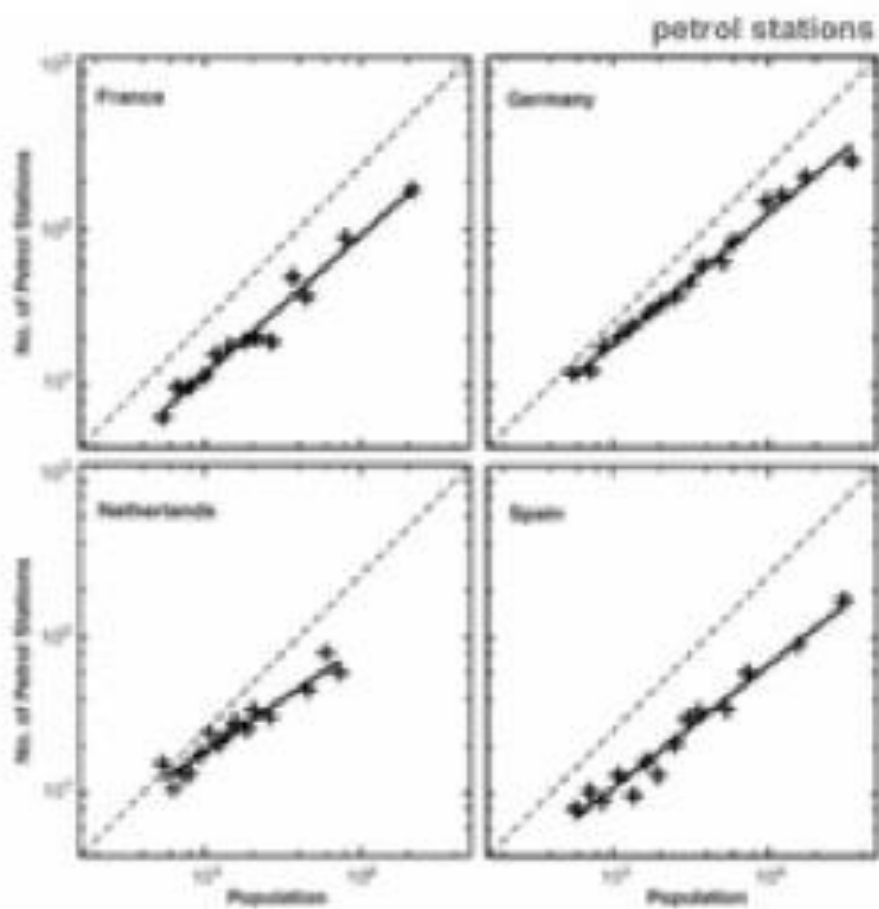
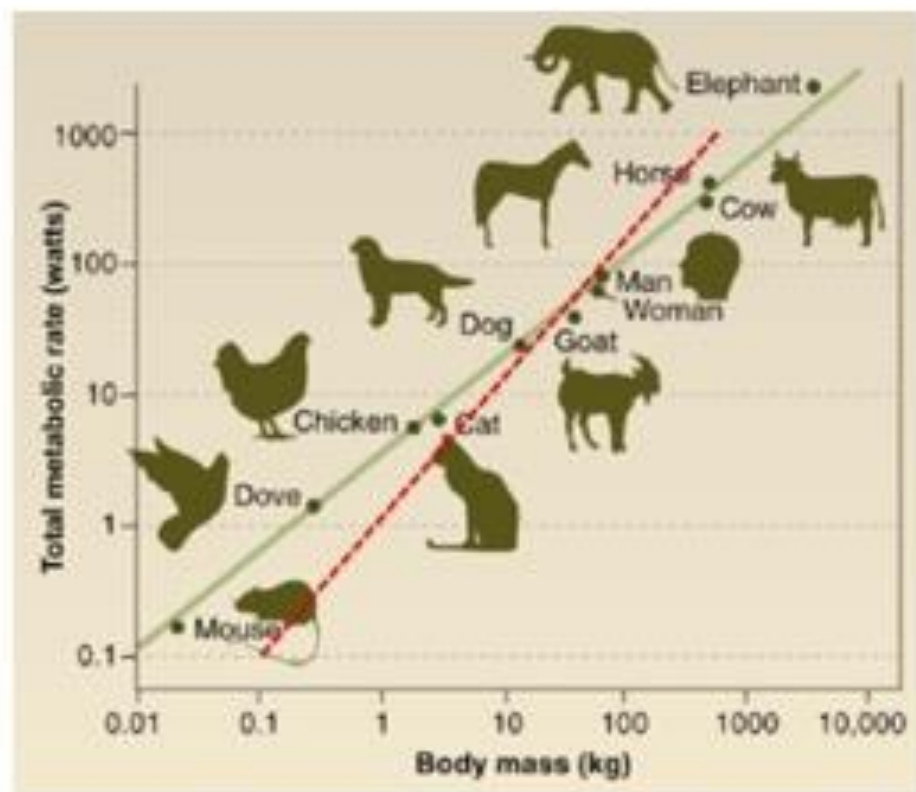


Figure 2

Hover over a city for details





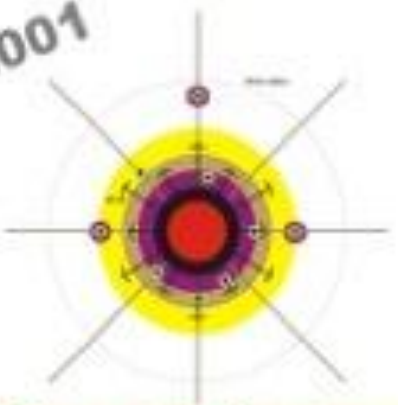
Kuhnert, Helbing & West, Physica A363, 96-103 (2003)

Metropolitan Scale

Spatial Scales and Disciplinary approach

	Scale	Discipline	Knowledge areas
	1: 50.000.000	Geopolitics	UN. NATO. US. EU. IMF, OPEP,
	1: 5.000.000	'Regional' (Continental) Politics	UN. OAS. WB. BID. ADB. AFDB.
	1: 500.000	National Development	Politics, Economics, Sociology, Environment, Geography
	1: 50.000	Metropolitan Planning	Economics, Sociology, Infrastructure, Environment, Utilities
	1: 5.000	Urban Planning	Housing, Industrial, Services, Commerce, Transport, Environment
	1: 500	Urban design	Space, Volume, Semiotics, Engineering,
	1: 50	Architecture	Light, Space, Texture, Materials, Structure, Installations, Budget

2001



Monocentric Structure



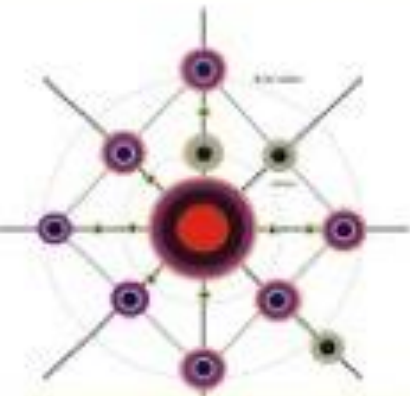
Sprawl Structure



Monocentric Structure



Sprawl Structure



Polycentric Structure



Multipolar Structure



Polycentric Structure



Multipolar Structure

- Metropolitan Core
- Outer Core
- Main Inter-city Road
- Principal Metropolitan Sub-Center
- Secondary Metropolitan Sub-Center
- High-Density Suburban
- Medium-Density Suburban
- Low-Density Suburban

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Conurbation
metastasis

Webfoot
phenomenon

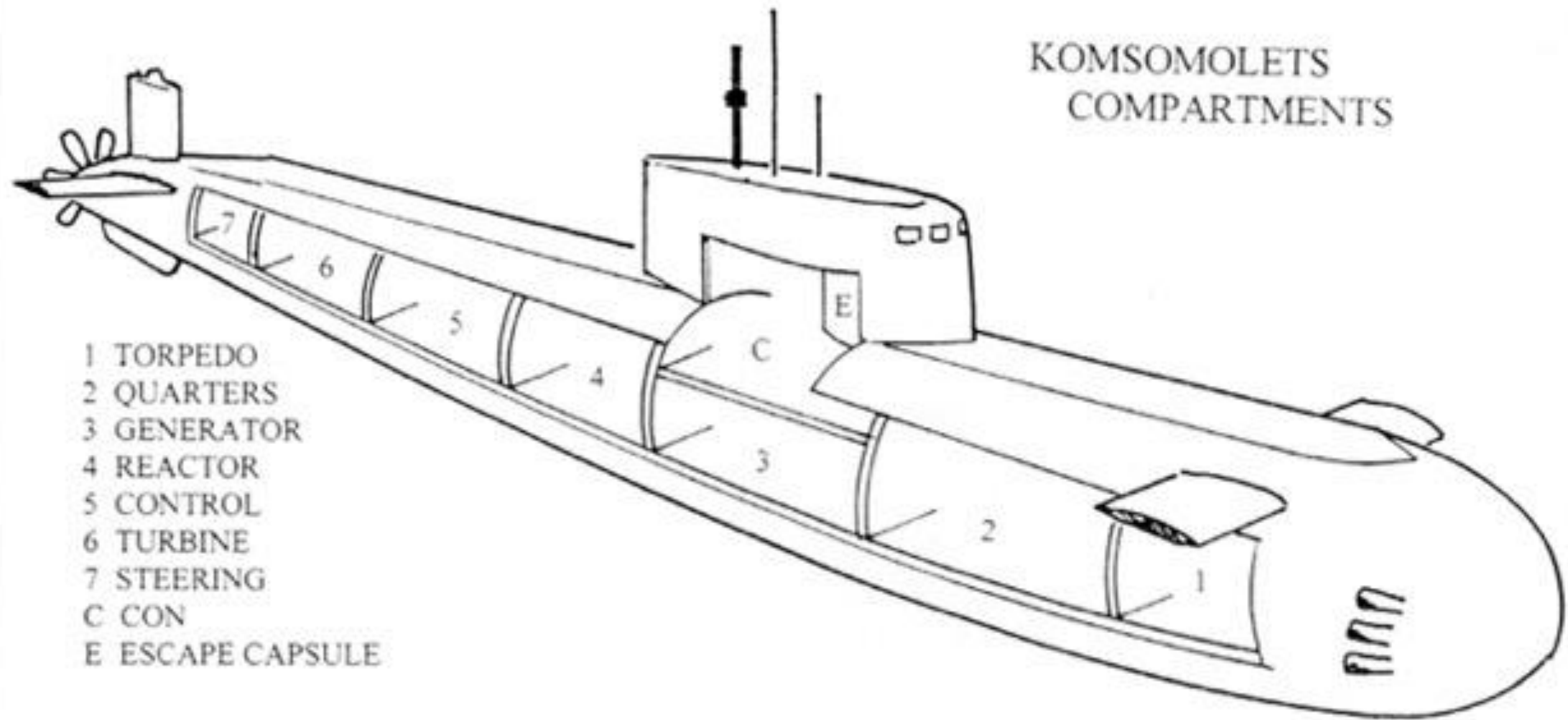
Sustainable
Metropolis

Environmental
Segmentation

Source: Edward Leman, Ovenset.com

Source: www.ambroscini.com

KOMSOMOLET'S COMPARTMENTS



- 1 TORPEDO
- 2 QUARTERS
- 3 GENERATOR
- 4 REACTOR
- 5 CONTROL
- 6 TURBINE
- 7 STEERING
- C CON
- E ESCAPE CAPSULE

Cloissonisme

- Rouault
- Gauguin
- etc...

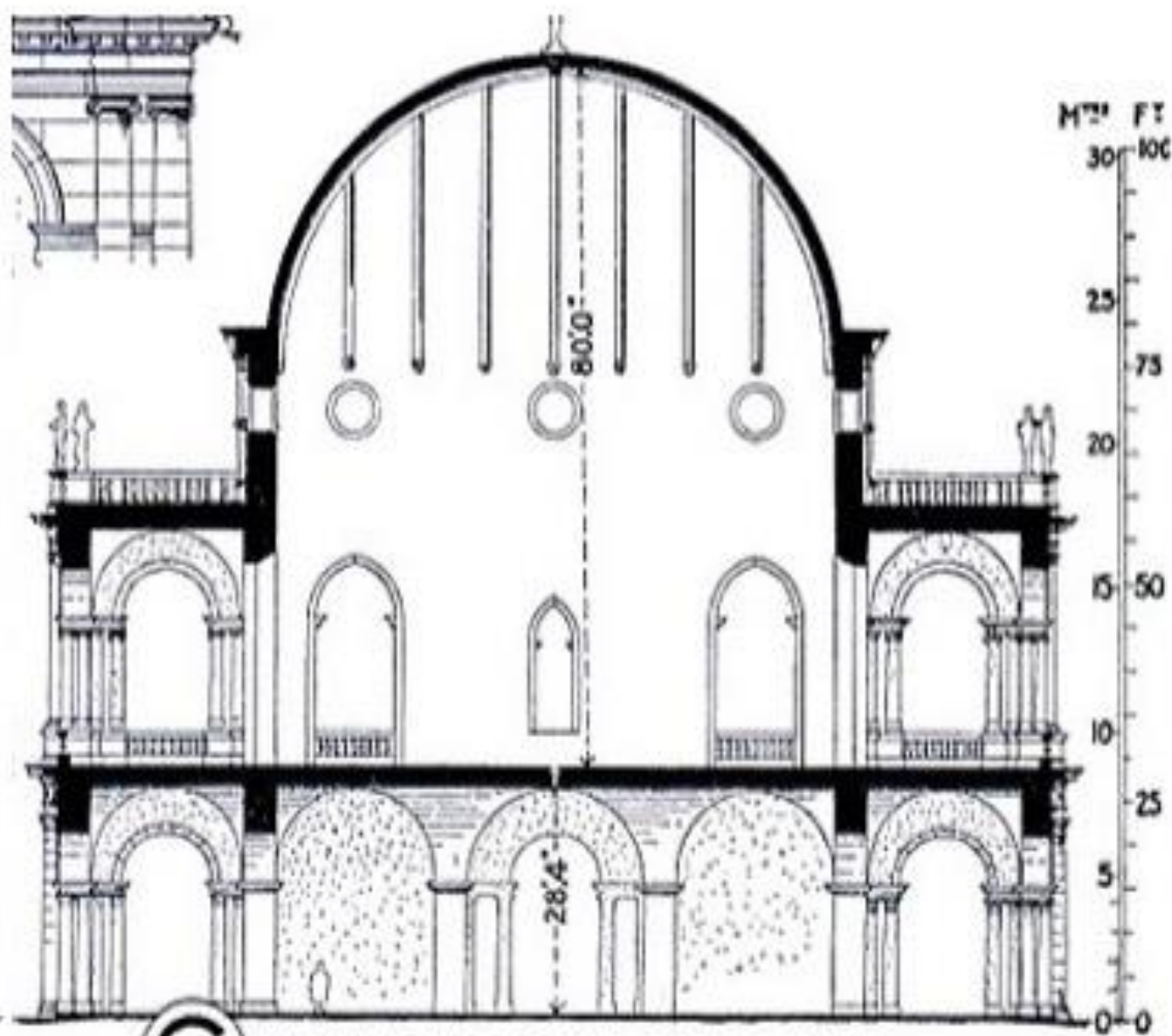
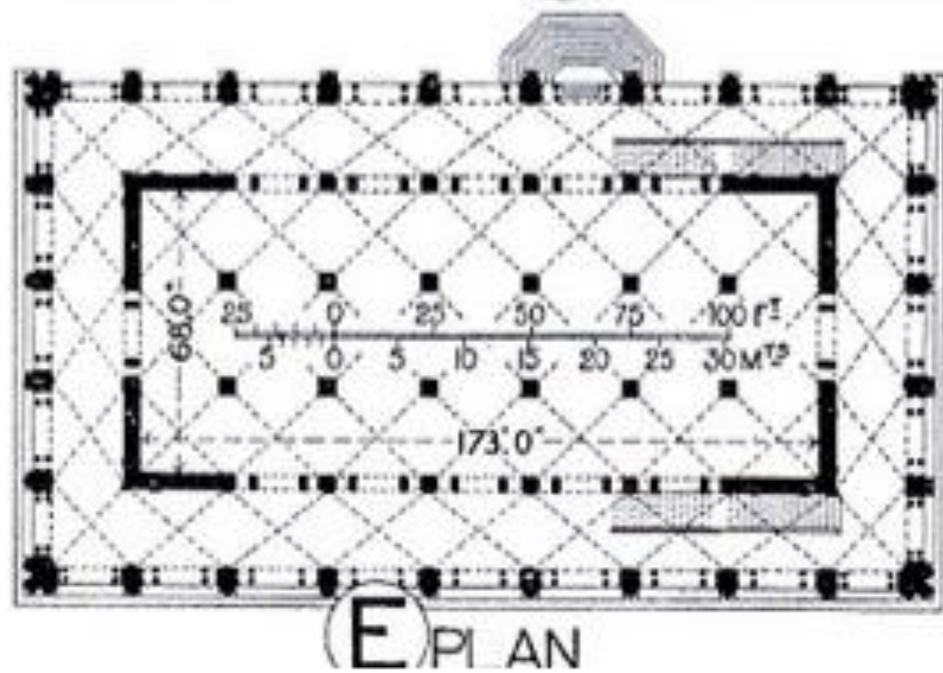




Elasticity



Adaptability



THE BASILICA: VICENZA



C TRANSVERSE SECTION

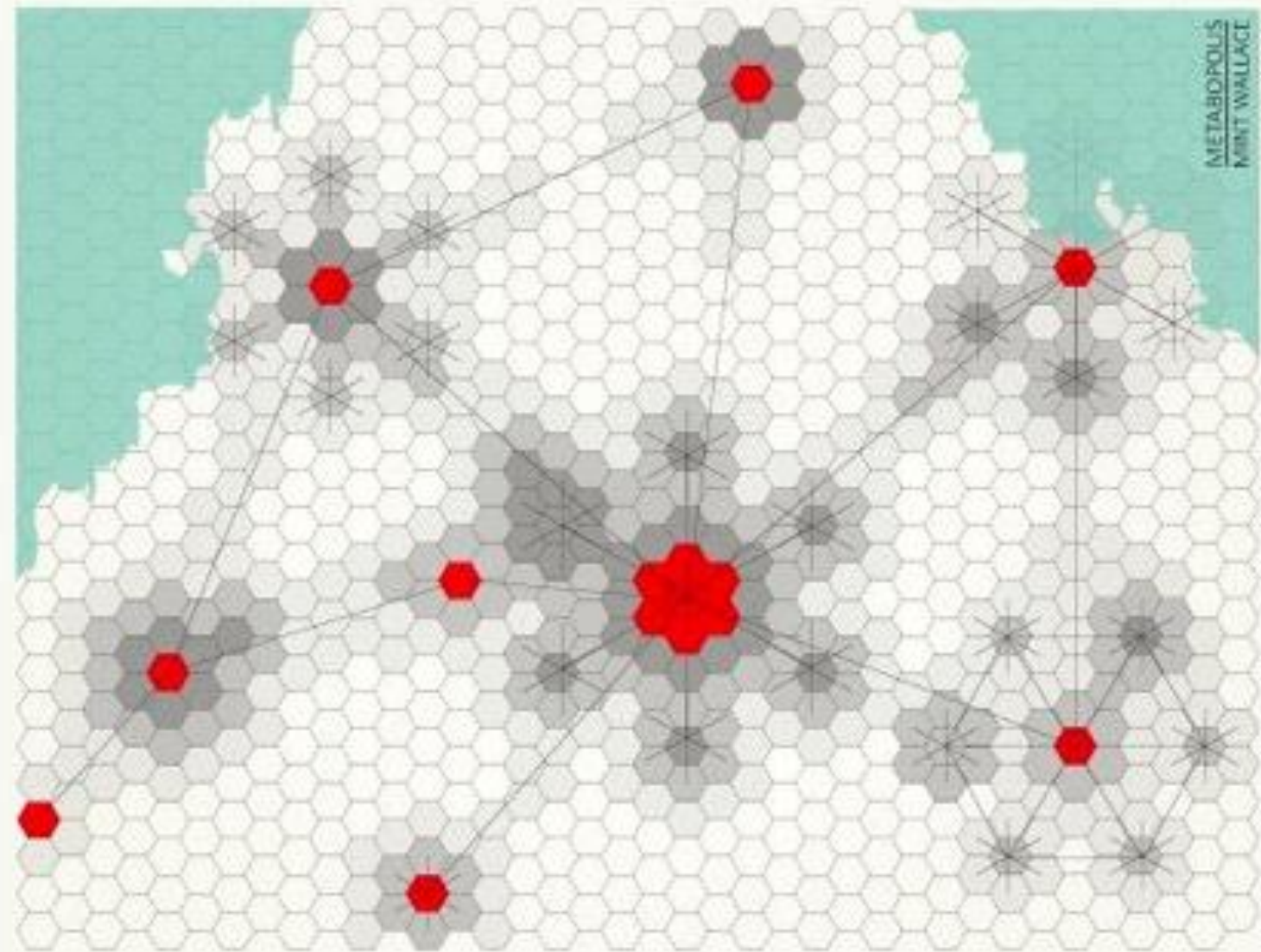
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BUT A GRAPH CAN BE CONSIDERABLY
MORE COMPLEX THAN A TREE.



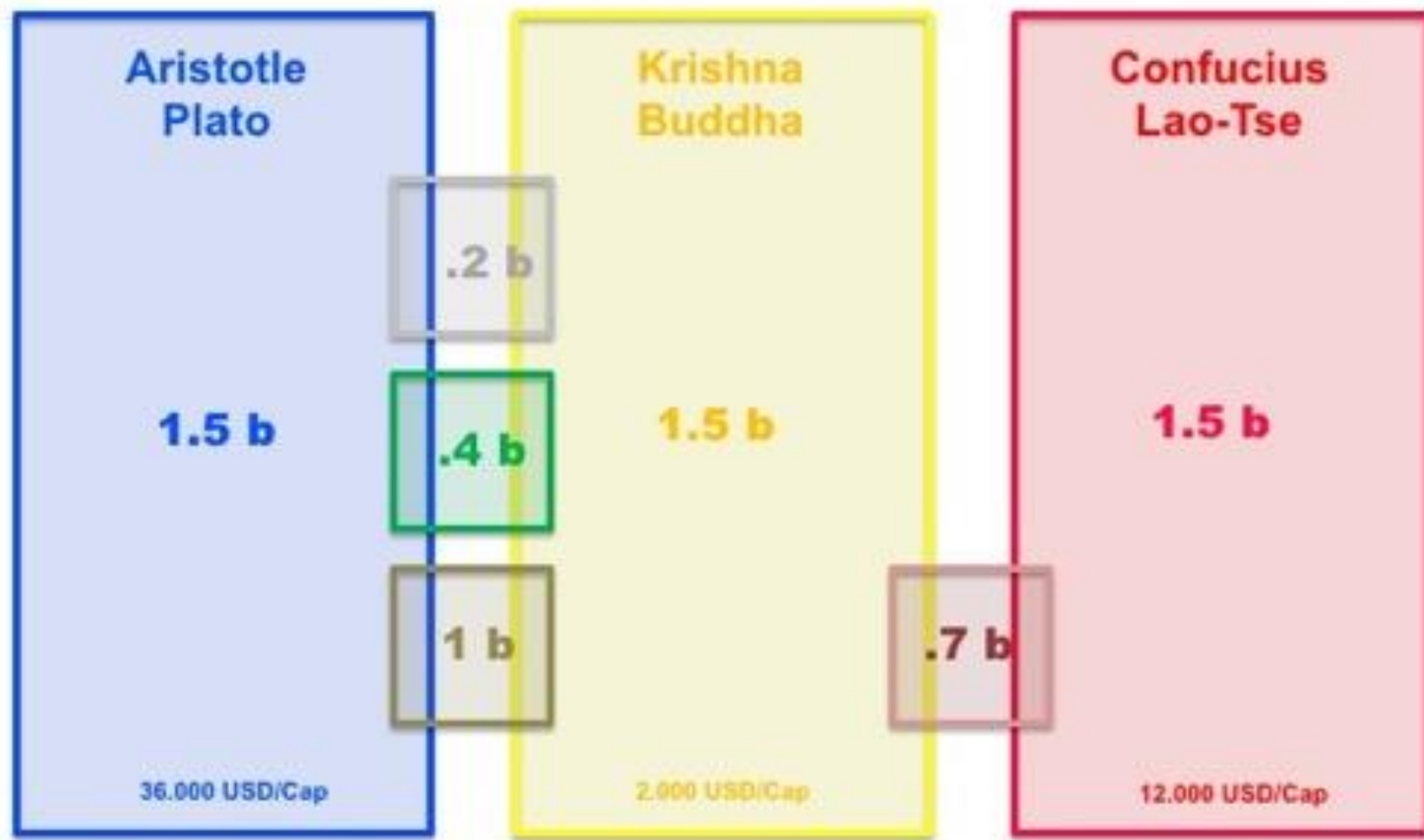


Pandemic Policymaking DEFCON Levels

	Monetary Policy 	Fiscal Policy 	Financial Reg 	Trade Policy 
DEFCON 5	WIT rhetoric	WIT rhetoric	silence	silence
DEFCON 4	Interest rate drops	WIT rhetoric	silence	silence
DEFCON 3	Liquidity lines Swap lines Interest rate drops	Targeted stimulus	silence	WIT rhetoric
DEFCON 2	Asset purchases ZLB	Broad stimulus Delayed Taxes	Temporarily relax reporting & capital	Temporary, targeted tariff decreases Export bans
DEFCON 1	Expand liquidity & asset purchases	Directed Lending Goods Rationing	Expand relaxed lending standards; TARP/recap/natlization	Expanded tariff decreases



The 3+4 World Cultures



Total: 7.5 b

BALZAC

Ça se verra, Monsieur le Docteur ?
Cela dépend de vous, Madame



Will that show, Doctor ?
It all depends on you, Madame

