

Conflict in Cyberspace

Graduate Seminar, Fall 2023
Instructor: Anton Sobolev

Week 05
Seminar: Technology Steps in
Lecture: Understanding Cyberspace

New TA: Min Shi

Min Shi (class materials, focus on coding)

Office Hours: Tuesday, 5-7 pm, G.R.3.314:

<https://minshi.youcanbook.me>

Forum / Emails: 9-10 AM

Kashmiri Medhi (class materials, focus on readings)

Office Hours: Thursday, 5-7 pm:

<https://minshi.youcanbook.me>

Forum / Emails: 6-7 PM

Group Activities Schedule

Activity	Module 2			Module 3			Module 4				
	W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16
Discussion Lead	G1	G2	Midterm	G3	G4	G5	G6	G7	Fall	Final	
Presentation	G4	G5	Presentations	G6	G7	G1	G2	G3	Break	Presentations	

Groups

Group 1

Sri Duggirala
Sowmitri Miryala

Sami Saleh

Group 2

Sai Rushank Ketha
Jude Ogbechie

Teja Zangam

Group 3

Tharunya Byra

Mariya Fatima Najam

Sarim Tirmizi

Group 4

Ray Crago
Collins Mwange

David Paz

Group 5

Ram Rohit Lakka
Vishva Bhagirath Patel

Mohsin Warraich

Group 6

Guruganesh
Gadige

Jaswanth Nalluri

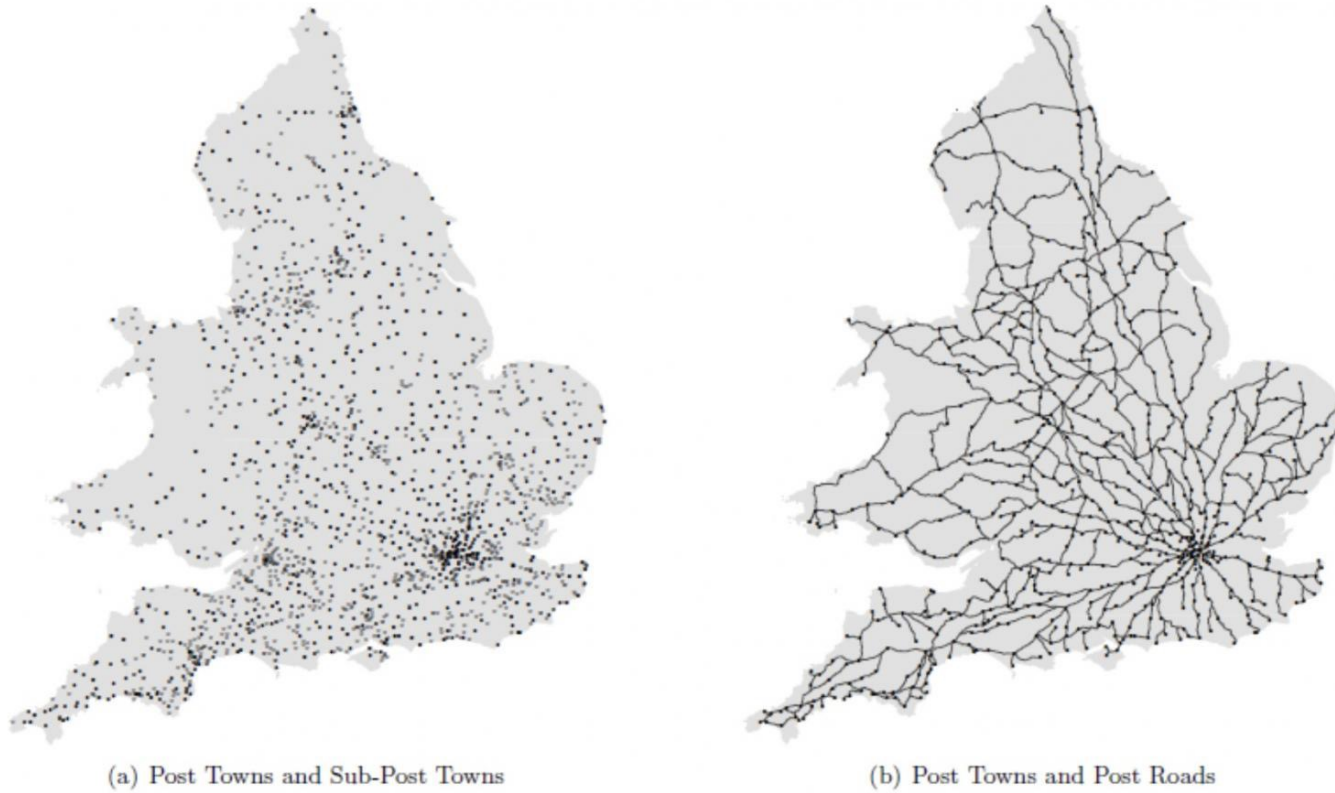
Group 7

Aiesha Pate

Jinka Sagar

Missing	
Kairavi	Shah
Uday Kiran	Ravoori
Srinitha	Bodi
Julian	Klos
Jorge	Reza

History of Technology: Pre-Internet?

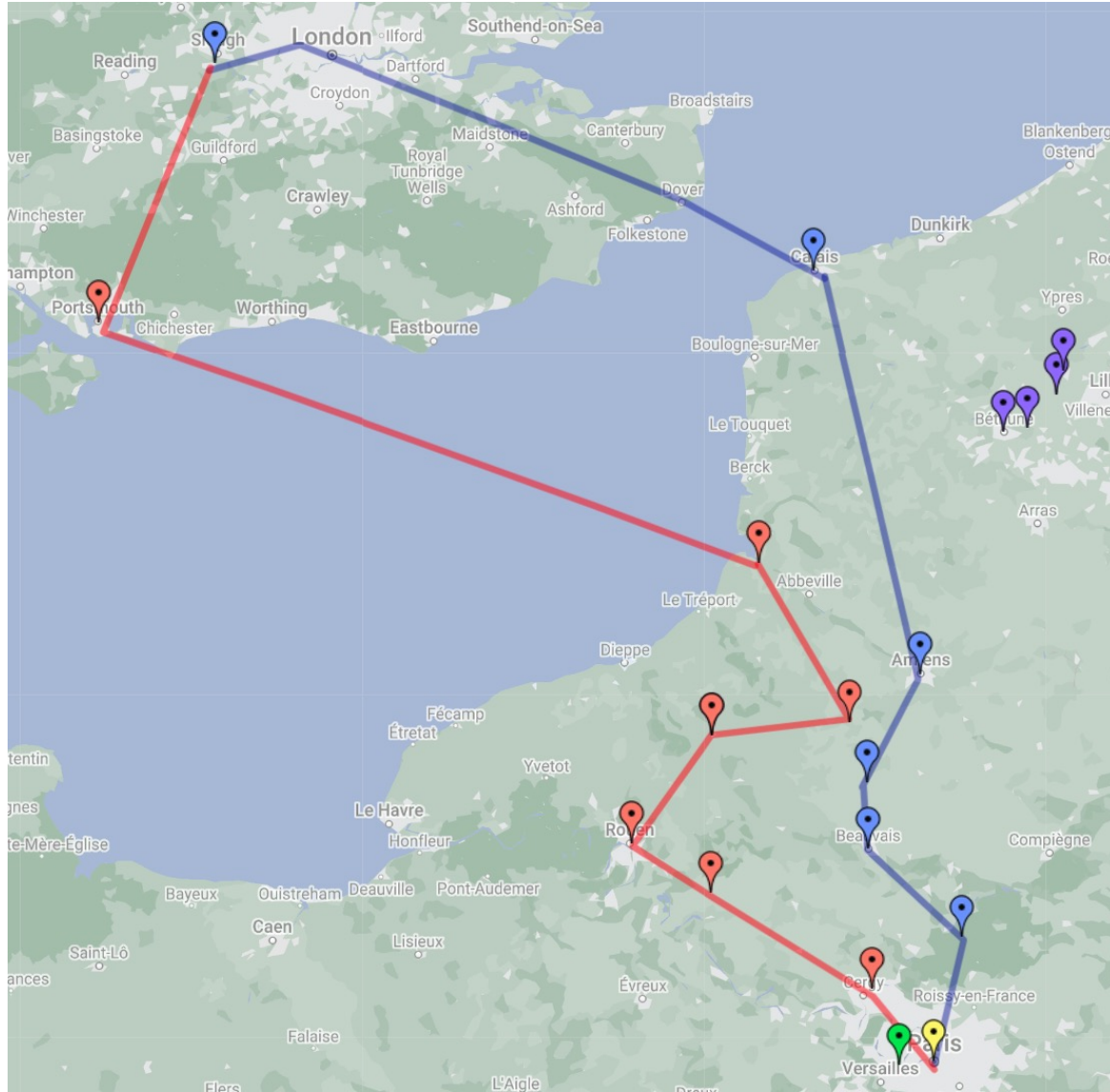


Note: The maps show England and Wales. Panel (a) shows post towns (black dots) and sub-post towns (grey crosses) observed around 1838. Panel (b) shows post towns (black dots) and postal roads digitized from maps around 1838.

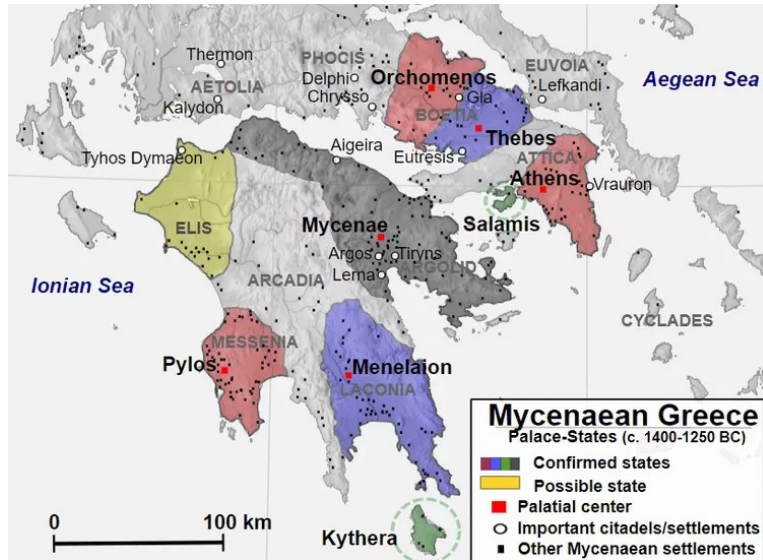
Figure 2 Post towns, sub-post towns, and post roads in the UK around 1838

How Technology Evolves

Some Speculations



Technology Steps In: Communication & Monopolization of Violence



☐ Ostracism as Punishment

☐ Technology restricts

☐ Costs of Territorial Control

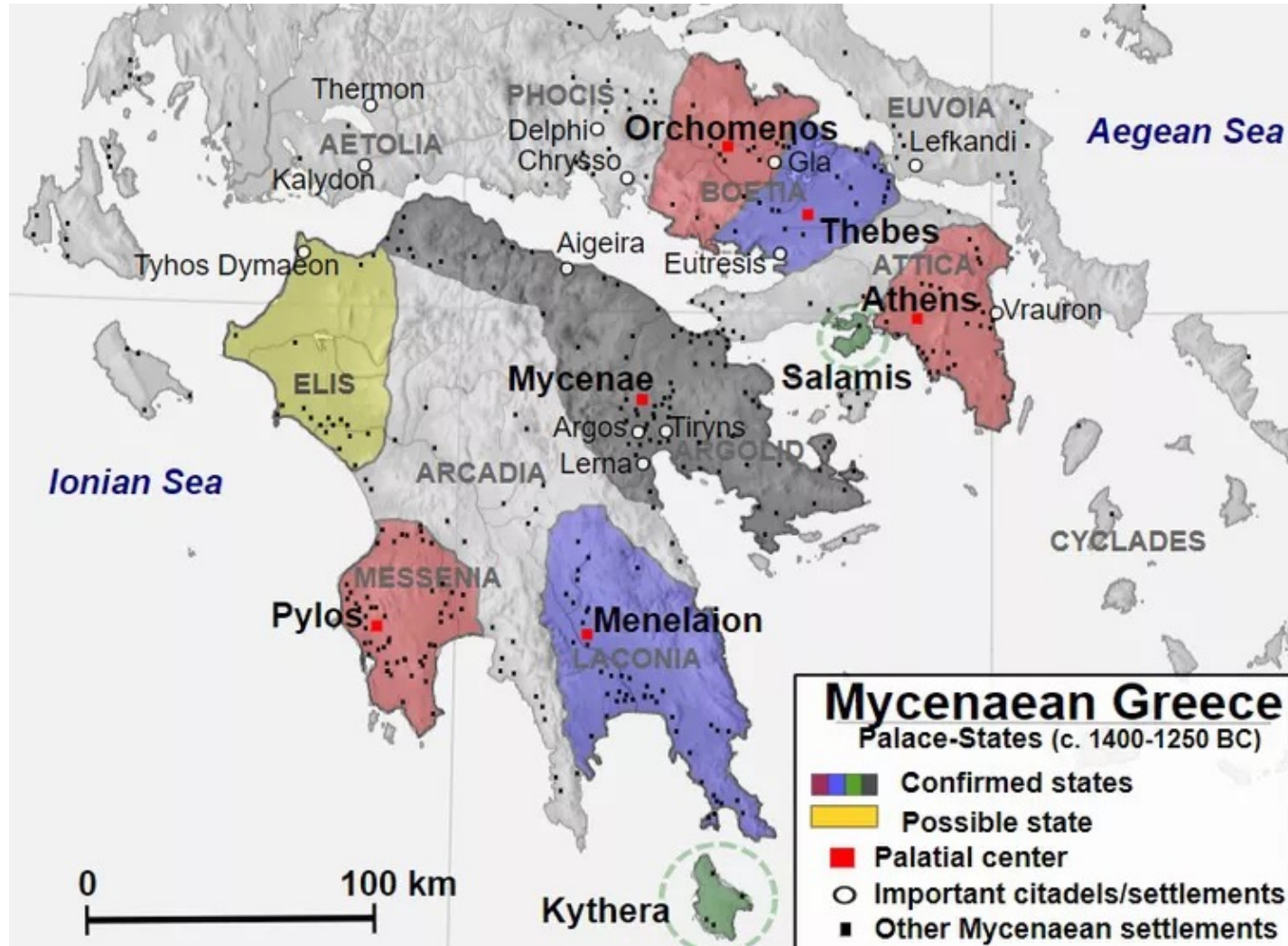
☐ Equilibrium:

☐ # Bandits / # States

☐ Borders

☐ Identify Stationary Bandit' strategies to mitigate them

Technology Steps In: Communication & Monopolization of Violence



☐ Ostracism as Punishment

☐ Technology restricts
☐ Costs of Territorial Control
☐ Equilibrium level of

☐ Identify Stationary Bandit' strategies to mitigate

THE ACROPOLIS

Scale of Yards
0 10 20 30 40 50 60
Contour lines at intervals of 5 metres
(= 16·4 feet) shown thus: ———— 100

1. Propylaea
2. Erechtheum
3. Temple of Nike Apteros
4. Parthenon
5. Erechtheum

Cyclopean
6th Century B.C.
5th & 4th Century B.C.
Roman

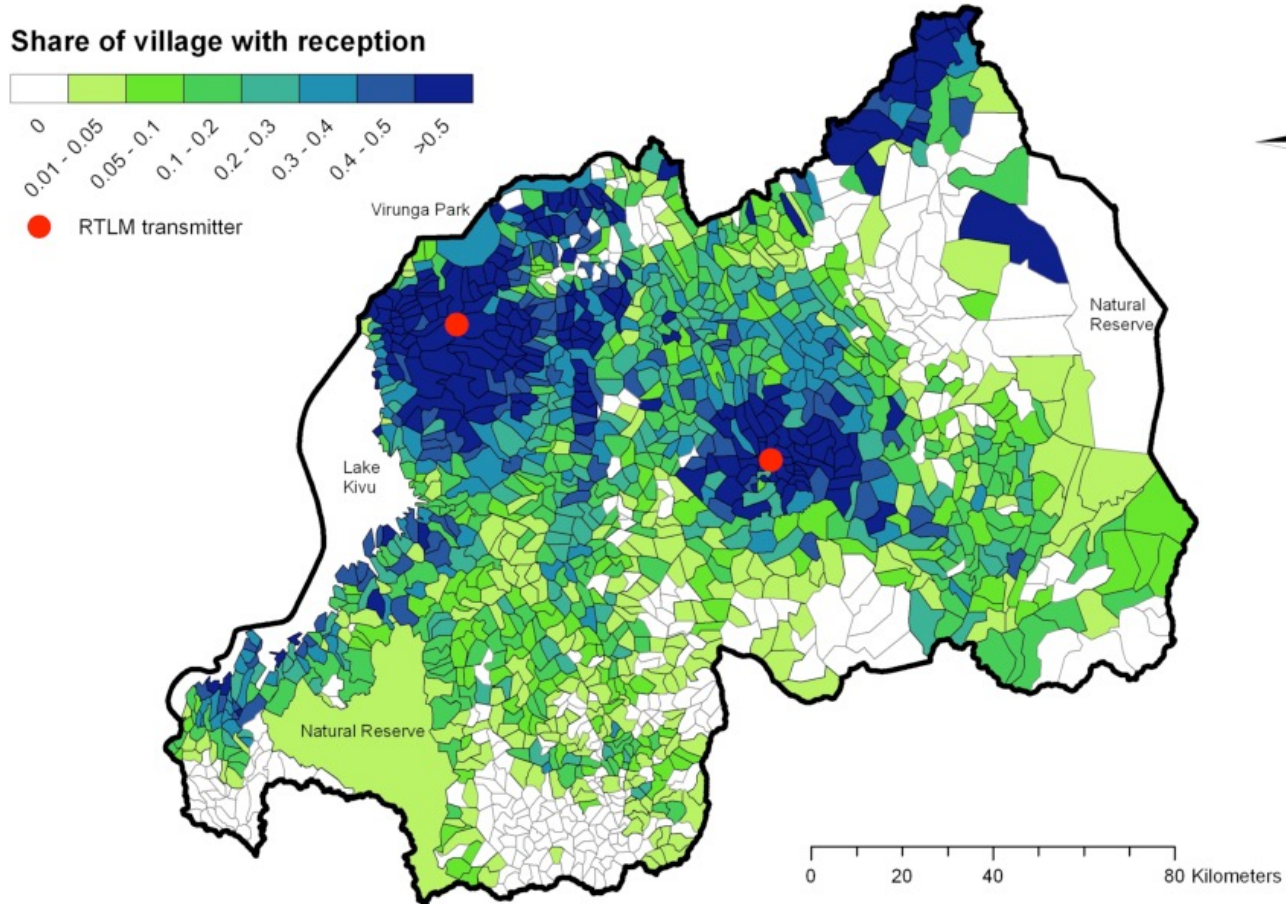
Acropolis of Athens
Clepsydra
Roman Gateway
Propylaea
Early Road
Athena Promachos (site of)
Early Temple of Athena
Parthenon
Temple of Nike Apteros
Erechtheum
Chalcothea
Pelagium
Theatre of Herodes
Asclepium
Theatre of Dionysus
MUSEUM
SMALL MUSEUM
Altar of Athena
Temple of Rome and Augustus
Retaining Wall
Spring

After J.H. Middleton, by permission of the Hellenic Soc. and Prof. R.C. Buckton

- Borders/Walls as Prevention
- Technology restricts
 - Costs of Territorial Control
 - Equilibrium level of Violence

Technology Steps In: Summary

Figure II. RTLM radio coverage



First guess is wrong: Monopolization of violence does not work in CyberSpace

Although this perspective was looked different 15 years ago: Viruses and Antivirus Companies as Protection-Racket Business

