

117-85-D Gudiya Grid and National Security

The thoughts in this chapter were triggered by this post on X.

The modern world has become accustomed to thinking about security in terms of people, computers, and networks.

- The emerging age of autonomous systems may force us to think about security very differently.
- The object that requires protection is no longer merely the document.
- It is no longer merely the server.
- It is no longer merely the network.
- It is no longer merely the device.
- The object that requires protection is the actant itself.

The K3 Scout lesson

Recent reports concerning the alleged transmission of information from surveillance drones to external destinations (Chinese) illustrate a profound problem.

The traditional reaction is predictable:

- disconnect the network;
- replace the equipment;
- patch the software;
- change the credentials;
- isolate the hardware.

All of these responses are perfectly rational.
All of them are also fundamentally local.

The hidden problem

The difficulty is that the future will contain not one drone but millions of them.

Each drone will possess:

- sensors;
- memory;
- navigation systems;
- communications systems;
- reasoning capability;
- autonomous decision-making capability.

The drone itself will become an actant.

A new question emerges

The old question was:

Who is using the device?



The new question becomes:

Who is the device?

This distinction is extraordinarily important.

- Human beings already possess identities.
- Airplanes possess transponders.
- Ships possess identification systems.
- Vehicles possess registration numbers.
- Autonomous actants may require something similar.

Know Your Actant (KYA)

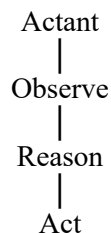
This is one reason KYA may become an essential principle of the GUDIYA architecture. Every actant entering the cognitive field would possess an identity.

- Identity
- Origin
- Capabilities
- Permissions
- Relationships
- Ownership
- Behavioral history
- Stabilization profile

The objective is not control. The objective is observability.

The Gridless world

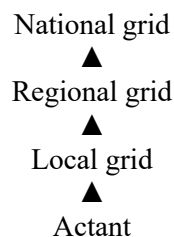
In a Gridless world, the actant exists alone.



- There is no wingman.
- There is no external awareness.
- There is no larger field of observation.

The Grid-attached world

In a Grid-attached world, every actant exists within a much larger ecosystem.

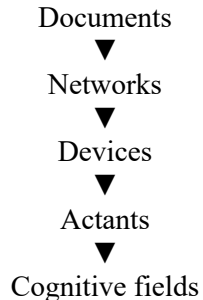


The grid can observe:

- unexpected communication patterns;
- unexplained behavioral changes;
- unauthorized couplings;
- unusual recursion patterns;
- abnormal synchronization behavior;
- emergent kill webs.

The evolution of security

Human civilization appears to be following a remarkably consistent path.



Each stage requires a broader level of awareness.

A transponder for intelligence

Commercial aviation solved a similar problem decades ago.

The answer was not merely to build stronger airplanes.

The answer was to construct an entire ecosystem.

- Radar systems.
- Air traffic control systems.
- Navigation systems.
- Transponders.
- Weather systems.
- Communications systems.

Every aircraft became visible to the larger system.

Perhaps the same thing will eventually happen to actants.

The new perimeter

- Traditional cybersecurity protects boundaries.
- GUDIYA protects relationships.

Traditional cybersecurity asks:

What is this machine doing?

GUDIYA asks:

How is this actant interacting with the field?

Final reflection

The world may eventually discover that autonomous systems cannot safely exist as anonymous entities wandering through an invisible cognitive landscape.

- The cognitive field itself must become observable.
- The participants themselves must become identifiable.
- Perhaps that is why KYA—Know Your Actant—may become as fundamental to the age of intelligence as KYC—Know Your Customer—became to the age of finance.
- And perhaps a cognition grid could arrest problems long before anyone even realizes that they exist.