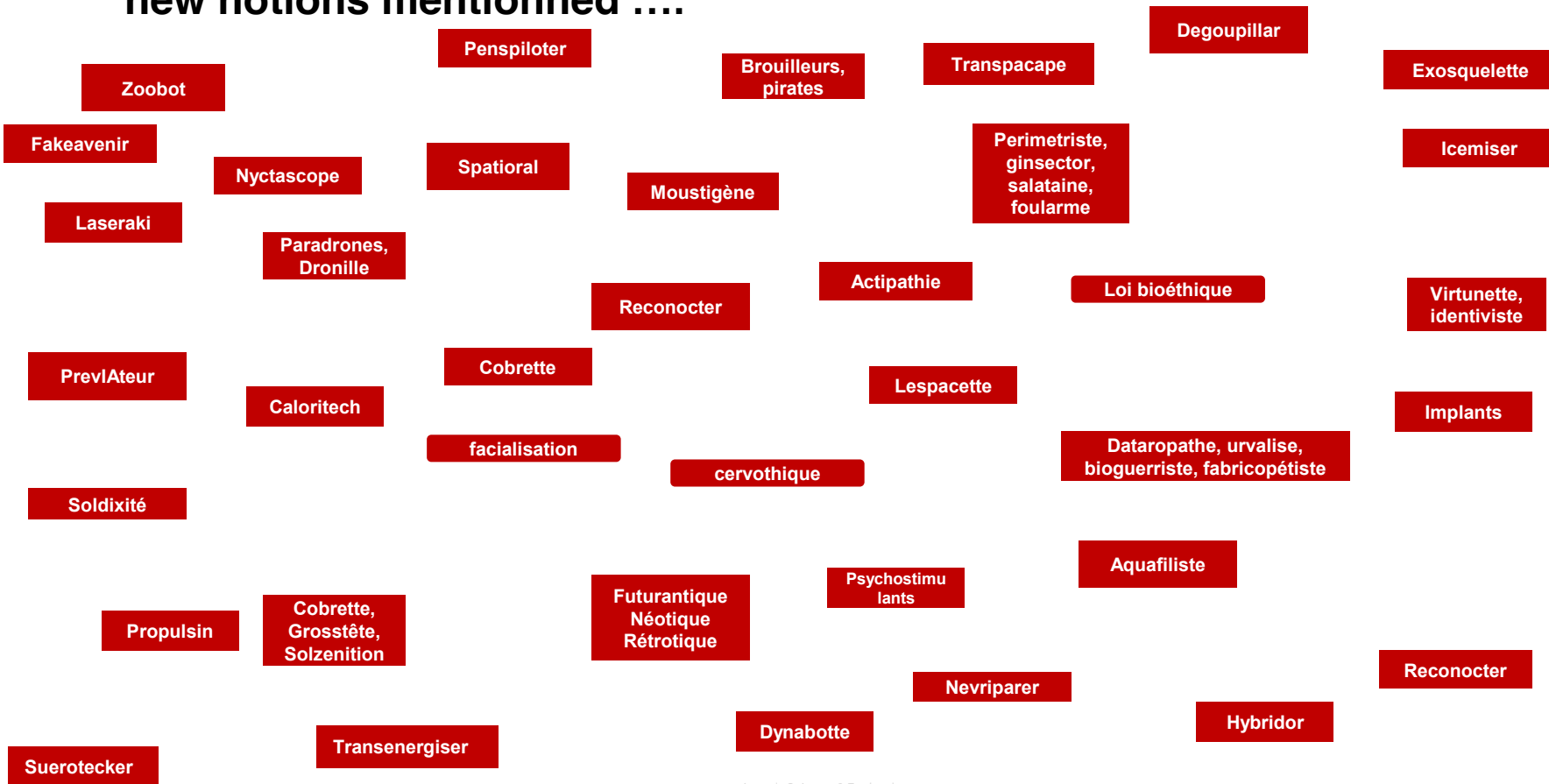# J. Classement des concepts du dictionnaire soldat du futur dans le modèle systémique

Positionning « Dictionnaire soldat du futur » concepts
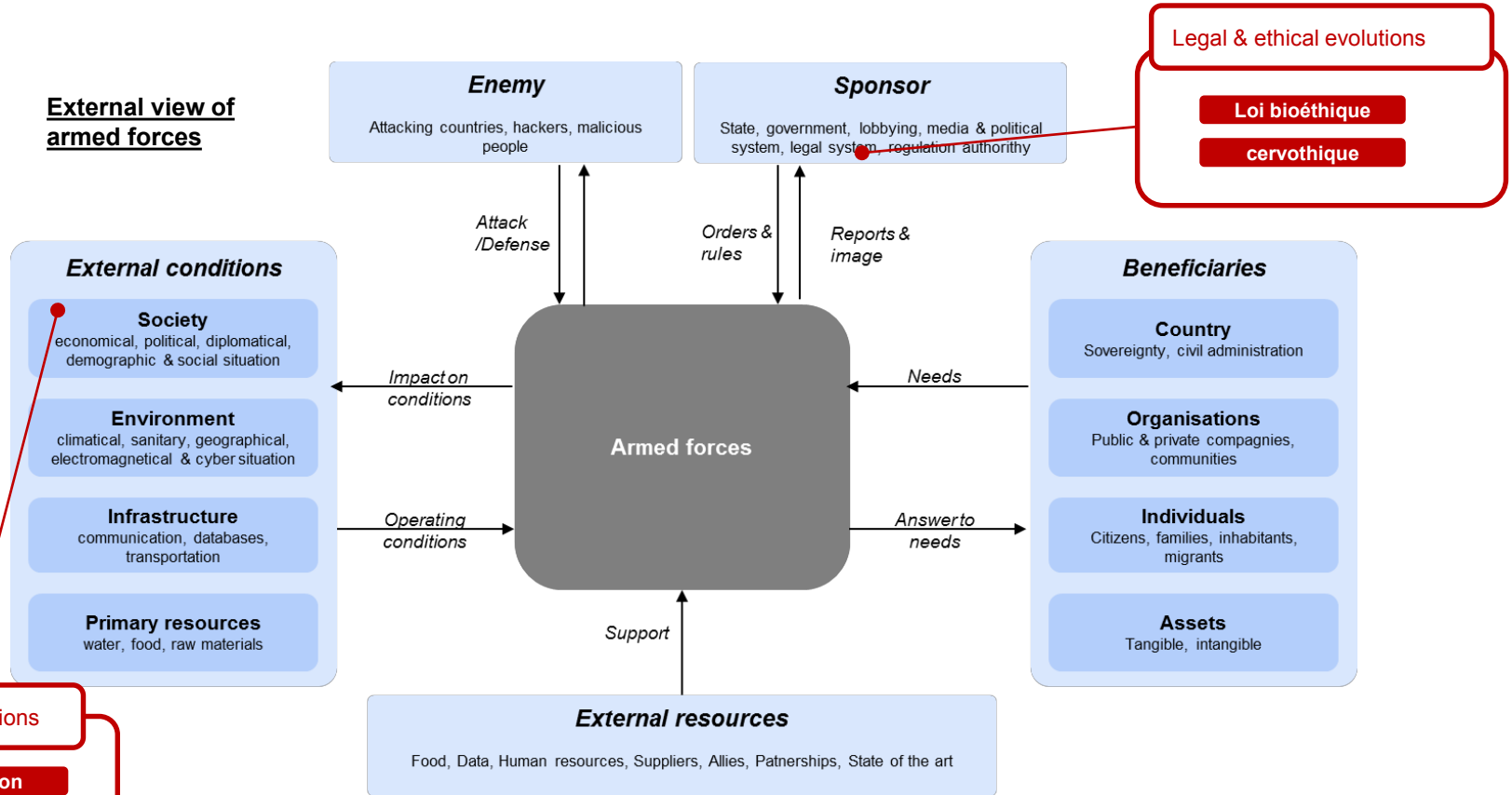
Going through new words defined in « Dictionnaire soldat du futur » or new notions mentionned ….

Penspiloter

Degoupillar

Brouilleurs, pirates

Transpacape

Exosquelette

Zoobot

Fakeavenir

Perimetriste, ginsector, salataine, foularme

Icemiser

Nyctascope

Spatioral

Moustigène

Laseraki

Paradrones, Dronille

Actipathie

Loi bioéthique

Virtunette, identiviste

Reconocter

PrevIAteur

Cobrette

Lespacette

Implants

Caloritech

facialisation

Dataropathe, urvalise, bioguerriste, fabricopétiste

cervothique

Soldixité

Aquafiliste

Psychostimulants

Propulsin

Cobrette, Grosstête, Solzenition

Futurantique Néotique Rétrotique

Nevriparer

Reconocter

Dynabotte

Hybridor

Suerotecker

Transenergiser

… some are related to evolutions of armed forces context

External view of armed forces

Enemy
Attacking countries, hackers, malicious people

Sponsor
State, government, lobbying, media & political system, legal system, regulation authorithy

Legal & ethical evolutions
- Loi bioéthique
- cervothique

External conditions

Society
economical, political, diplomatical, demographic & social situation

Environment
climatical, sanitary, geographical, electromagnetical & cyber situation

Infrastructure
communication, databases, transportation

Primary resources
water, food, raw materials

Armed forces

Attack /Defense

Orders & rules

Reports & image

Impact on conditions

Operating conditions

Support

Needs

Answer to needs

Beneficiaries

Country
Sovereignty, civil administration

Organisations
Public & private compagnies, communities

Individuals
Citizens, families, inhabitants, migrants

Assets
Tangible, intangible

Society evolutions
- facialisation

External resources

Food, Data, Human resources, Suppliers, Allies, Patnerships, State of the art

… some describe new way or new mean of action within armed forces

Functional view of armed forces

New means to analyse data
- Reconocter
- Virtunette, identiviste
- Degoupillar

New means to attack and protect from enemies
- Brouilleurs, pirates
- Perimetriste, ginsector, salataine, foularme
- Spatioral
- Zoobot
- Paradrones, Dronille

Sponsor

Orders | Reports

Armed forces

Analyse information, strategy and organize operations
- Receive orders / provide reports
- Organize / follow / communicate on operations
- Receive and analyse data / take decisions

Strategy time
Operation time

Instructions

Beneficiaries
- Country
- Organisations
- Individuals
- Assets

Enemy

Attack

Attack / Protect from enemies

Protect benificiaries

Ennemy attack

Ennemy attack

New means to act on external conditions
- PrevIAteur
- Aquafiliste

External conditions
- Society
- Environnement
- Infrastructure
- Primary resources

Impact on conditions

Act on external conditions

Compensate degraded external conditions

Answer to needs

Operating conditions

Operational means

Operational means

Ensure armed forces operations
- Manage logistics
- Manage transportation
- Take care

support

Support and update way of working

Preparation time

- Recruit / Train / Manage resources / Ensure process redundancy
- Purchase / Integrate / Maintain systems / Ensure material redundancy
- Watch techology / Transform way of working / Anticipate future / Simulate / Experiment / Test

New ways & means to recruit and train soldiers
- Soldixité
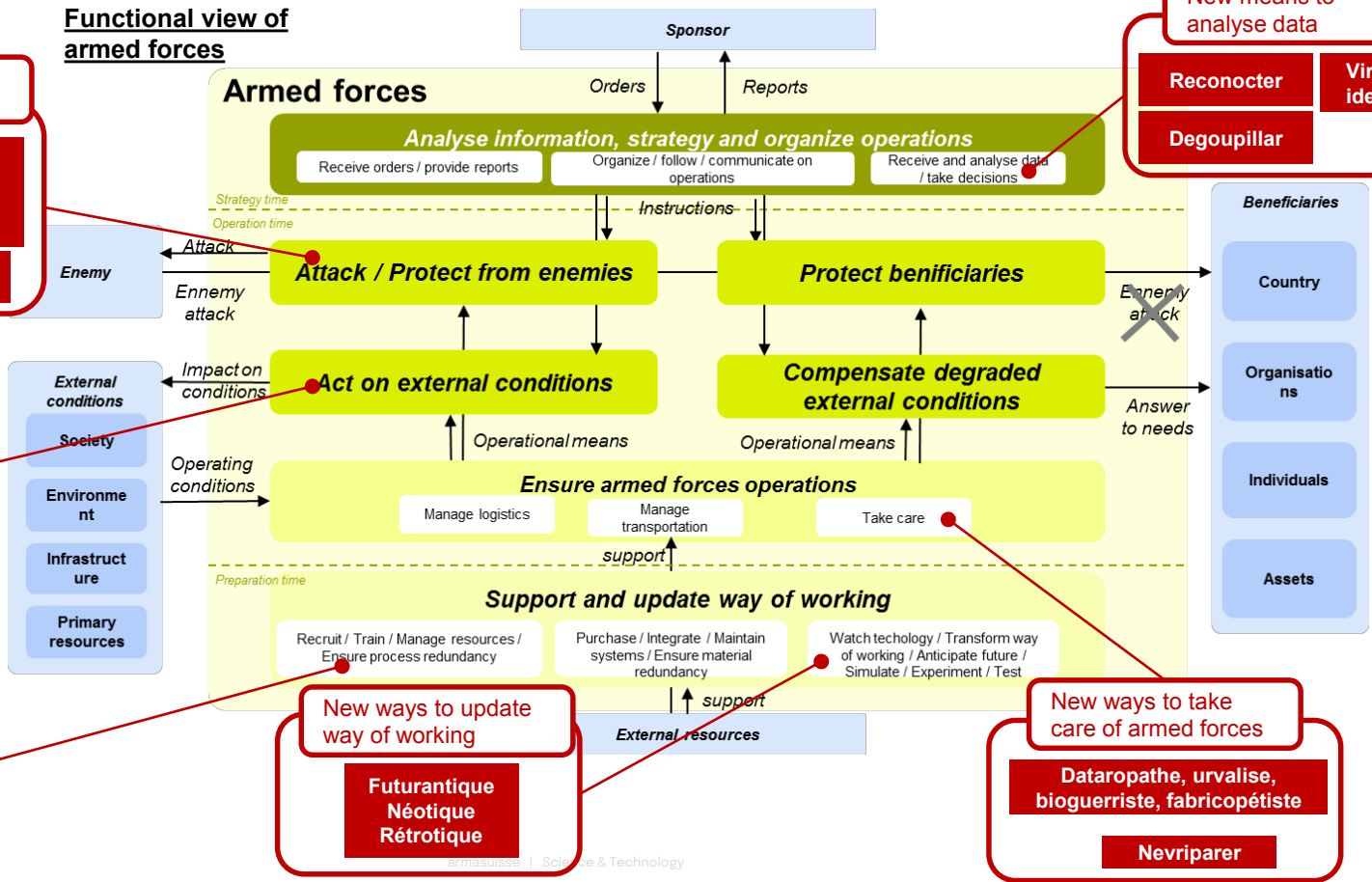- Cobrette, Grosstête, Solzenition

New ways to update way of working
- Futurantique
- Néotique
- Rétrotique

support

External resources

New ways to take care of armed forces
- Dataropathe, urvalise, bioguerriste, fabricopétiste
- Nevriparer

Dr. Quentin Ladetto

armasuisse | Science & Technology

deftech.ch

… more precisely, from the soldier's perspective, some concepts modify soldiers's external interfaces

New weapons & surrounding dangers for enemies

Zoobot	Ginsector
	Foularme
	Salataine

New weapons & surrounding dangers for allies

Zoobot	Ginsector
	Foularme
	Salataine

External view of soldier

CONSTRAINTS

Environmental conditions

Operating field

Ground	Nature
Mountains	
Vegetation	Buildings

Weather
- Air
- Sun
- Moon
- Clouds
- Rain

Regulation (legal, cultural, moral)

Enemies & Surrounding dangers

Soldiers	Known enemies
Military weapons & systems	Unknown enemies

New roles to assist soldier during operation

- Identiviste
- Périmétriste

MAIN INPUTS

Military Staff & Allies

Hierarchy	Allies armed forces
Other soldiers	

Mission operating system

Information source	…

New food providing mean

- Caloritech

Primary resources

Food supply chain	Energy sources	Shelters

temperature, humidity, visibility, adherence

rules

attacks, bacterial & mechanical dangers, fake news

field info, instructions

real time data / information

food, energy

Soldier

protection, defense

MAIN BENIFICIARIES

Citizens

Value system

Family	Nation	Ideal
Flag, banner	Country	

confort, support, care

Preparation data, transportation & communication means

New roles to take care of soldier

- Urvalise
- Fabricopetiste

Quartermaster & medical infrastructure

Housing	Care system
Clothing	Medicines
Heath equipment	

Mission preparation and support infrastructure

Database	Mobility infrastructure	Vehicles
Telecom infrastructure	Military engineering	External weapons
		External protection equipment

RESOURCES
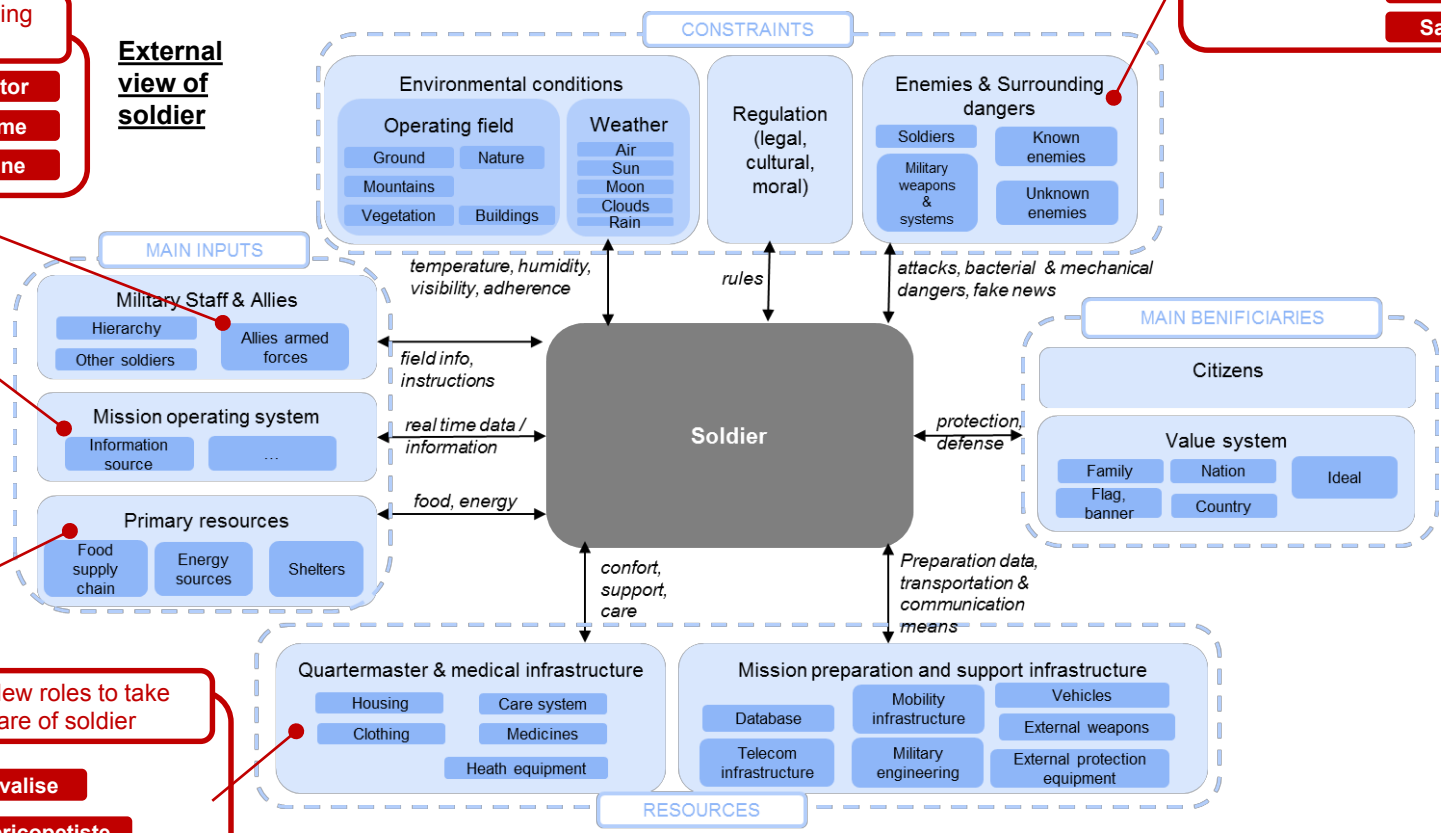
… some are related to soldier's internal functions

New feeling function
- Resist to pain
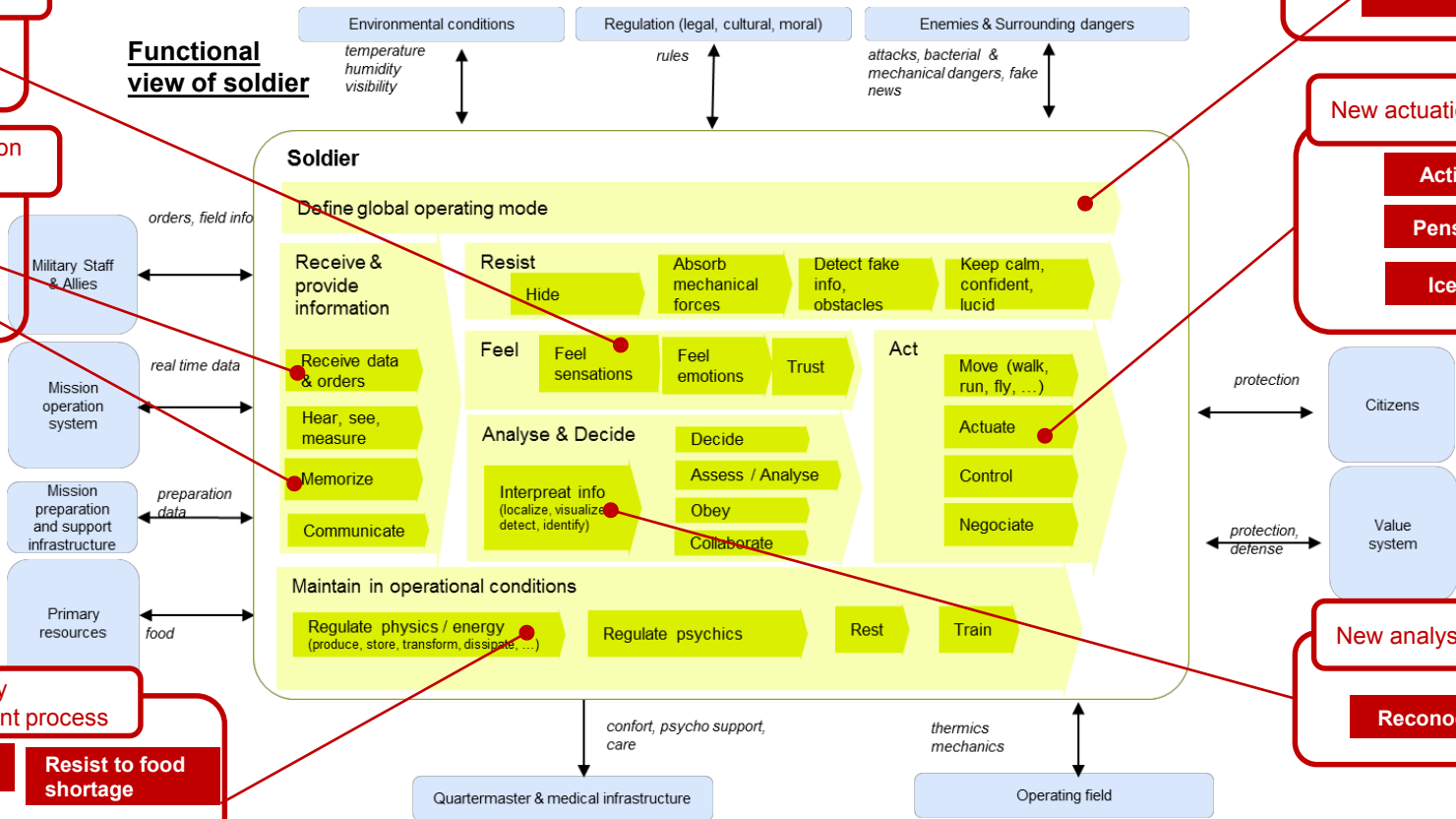
New data aquisition functions
- Increased attention
- Fakeavenir

New energy management process
- Transenergiser
- Resist to food shortage
- Suerotecker

New operating function
- Double

New actuation process
- Actipathie
- Penspiloter
- Icemiser

New analysis function
- Reconocter

Functional view of soldier

Environmental conditions	Regulation (legal, cultural, moral)	Enemies & Surrounding dangers
temperature *humidity* *visibility*	*rules*	*attacks, bacterial & mechanical dangers, fake news*

Soldier

Define global operating mode

Receive & provide information
- Receive data & orders
- Hear, see, measure
- Memorize
- Communicate

Resist
- Hide
- Absorb mechanical forces
- Detect fake info, obstacles
- Keep calm, confident, lucid

Feel
- Feel sensations
- Feel emotions
- Trust

Analyse & Decide
- Interpreat info (localize, visualize detect, identify)
- Decide
- Assess / Analyse
- Obey
- Collaborate

Act
- Move (walk, run, fly, …)
- Actuate
- Control
- Negociate

Maintain in operational conditions
- Regulate physics / energy (produce, store, transform, dissipate, …)
- Regulate psychics
- Rest
- Train

Left side blue boxes:
- Military Staff & Allies — *orders, field info*
- Mission operation system — *real time data*
- Mission preparation and support infrastructure — *preparation data*
- Primary resources — *food*

Right side blue boxes:
- Citizens — *protection*
- Value system — *protection, defense*

Bottom boxes:
- Quartermaster & medical infrastructure — *confort, psycho support, care*
- Operating field — *thermics mechanics*

… some describe new equipment of soldier

Constructional view of soldier

New protection equipment
- Moustigène
- Transpacape

New data processing equipment
- Cobrette
- Nyctascope
- Lespacette
- Laseraki

New action equipment
- Exosquelette

New resources equipment
- Dynabotte
- Caloritech
- Propulsin

New equipment integrated into human
- Implants
- Psychostimulants
- Hybridor

Environmental conditions — temperature humidity visibility

Regulation (legal, cultural, moral) — rules

Enemies & Surrounding dangers — attacks, bacterial & mechanical dangers, fake news

Soldier

Protection equipment
- Helmet
- Virus protection

Action equipment
- Exosquelette
- Weapons
- Virus

Data treatment equipment
- Contact lenses
- Connected clothes
- Smartphone
- Virus detection

Human
- Brain
- Braincase
- Cornea
- Fingers
- Voice

Ressources equipment
- Dynabotte

Military Staff & Allies — orders, field info

Mission operation system — real time data

Mission preparation and support infrastructure — preparation data

Primary resources — food

Citizens — protection

Value system — protection, defense

Quartermaster & medical infrastructure — confort, psycho support, care

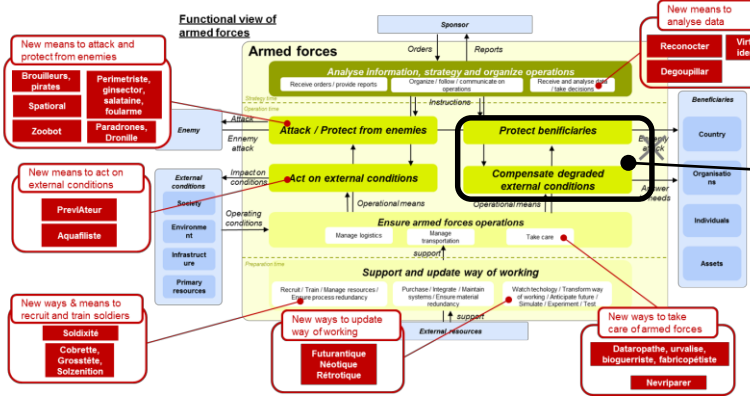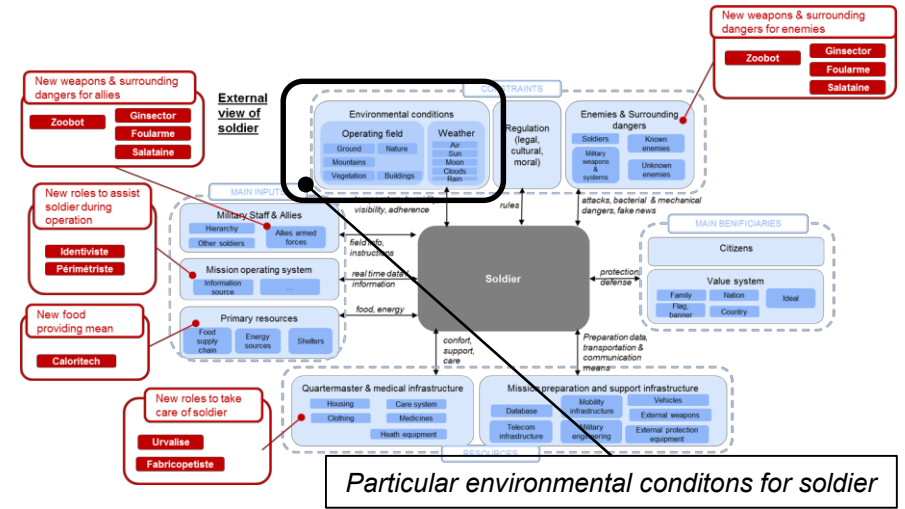Operating field — thermics mechanics

Positionning those notions within systemic framework **reveal well-explored area and <u>non-explored areas</u>**

Situations that armed forces may face in terms of environment, infrastructure, primary resources

Particular environmental conditons for soldier

New ways or means of action to compensate degraded external conditions or protect benificiaries