iMAF 2021 – Portuguese Military Academy

Presentation : CINAML

22nd September 2021 Dr Thomas Gasche , President



PARTE I

• HISTORY , HOME INSTITUTION , MILITARY SCIENCES



CINAMIL was created 04DEC2000

A project of Lecturers from the Military Academy Inicially 31 members (Civilian and Military)

Up until 2007, all the projects: i) financed by the Army ii) proposed by lecturers in the M.A.





Year 2007, "external" projects Army Geographical Institute, Lab Biological Defense, etc

Growth has been a permanente feature, from 2000 up to present-day......





4 Industrial Patents (applied / approved, desde 2015)

Year 2020

52 publications

Collaboration with more than 20 research centres / universities

Collaboration with more than 15 industrial/empresarial links





Present Day Membership (end 2020)

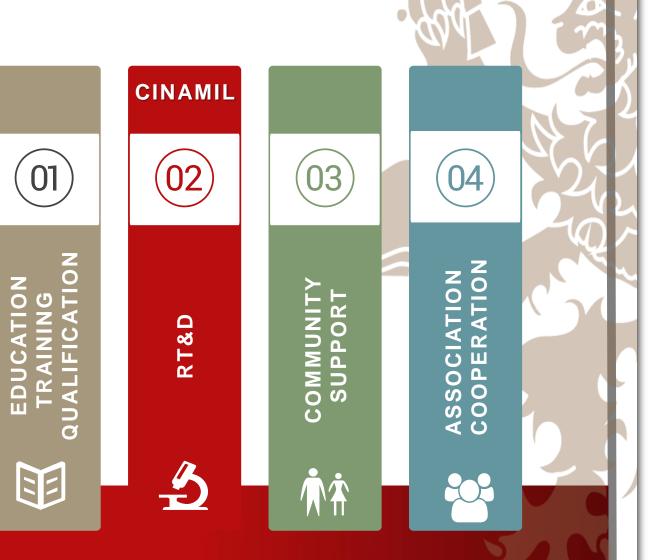
Military			Civilian			
Ph.D.	Non Ph.D.	SubTotal	Ph.D.	Non Ph.D.	Subtotal	TOTAL
13	59	72	37	11	48	120





MISSION

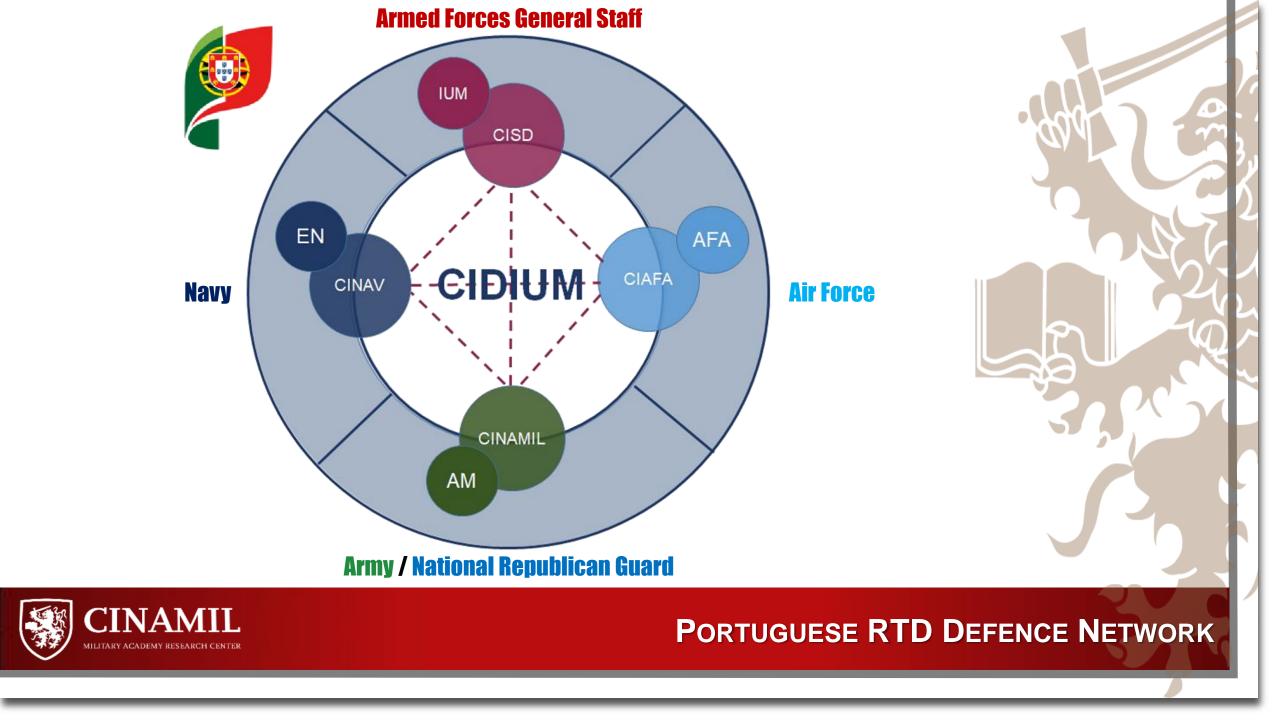
The Military Academy has the mission of training officers for the Army and the National Republican Guard (GNR), conferring the appropriate competencies to fulfill the missions of the Army and GNR and promote the development of command, control, direction, and leadership skills.



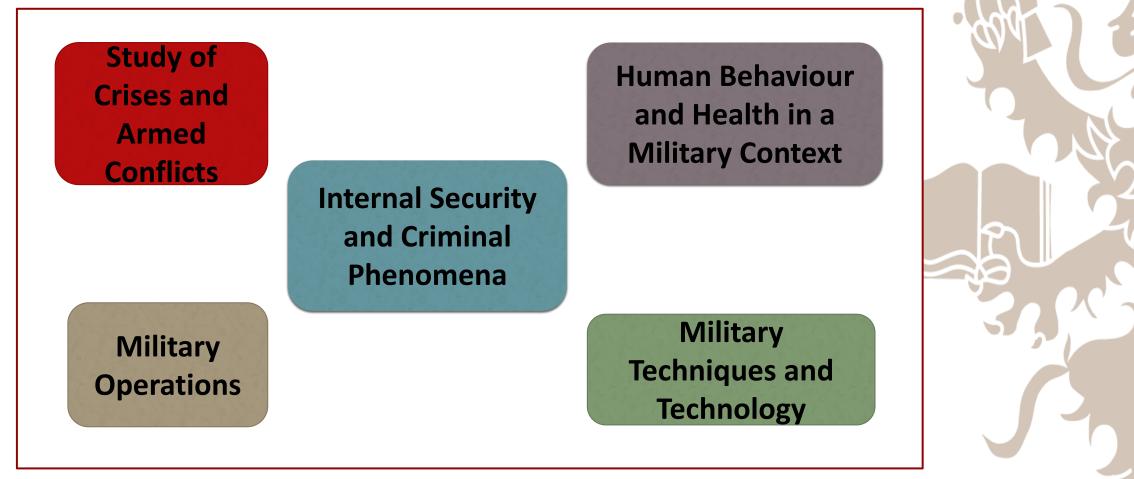








Military Sciences







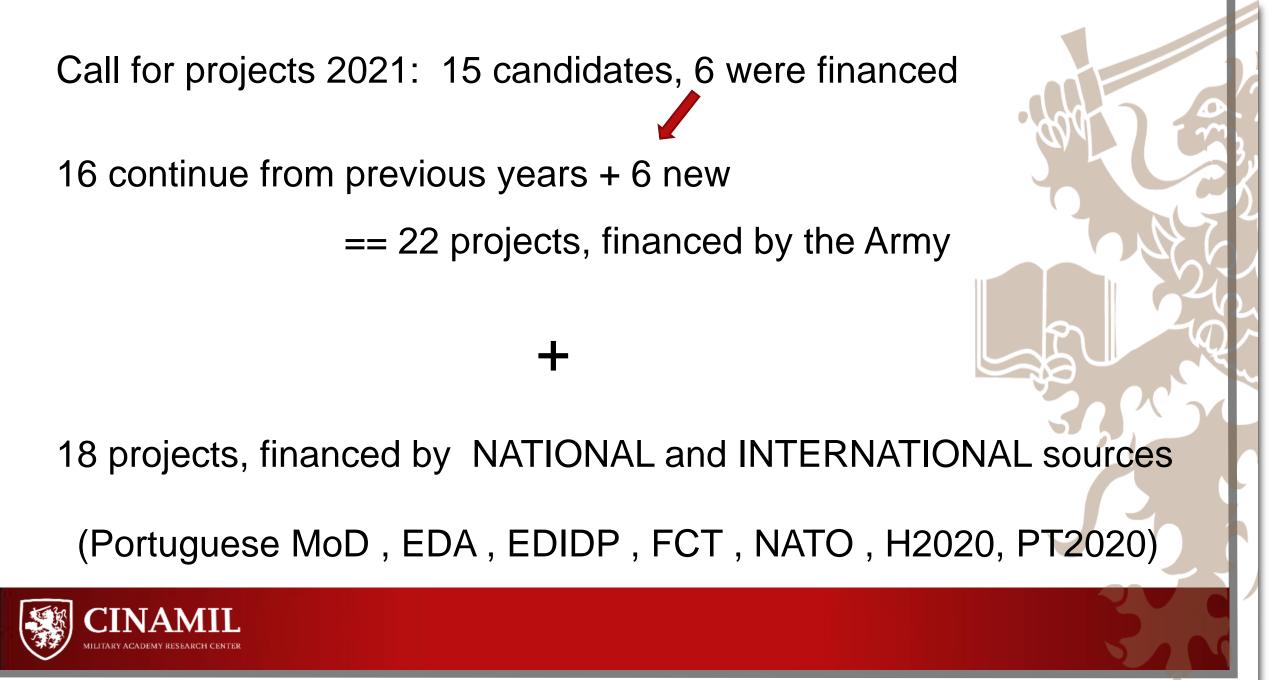
PARTE II

• PROJECTS, FINANCE

AND CENTRES OF COMPETENCE (M.A.)







EMPLOYER BRANDING	Candidates for the Army
LUNGSHIELD	NBQ protection
SIPA	Food Chain Protection
DRACO	Decontamination
PRINCE	Protection Infrastructures Explosives
DAQUI	Chemical Decontamination
FACIAL	Security : Face Recognition
FAMIL	Identification of Fatigue
PROFESEX	Protection Glass Surfaces
RESILIENCE TRAINING	Resilience and Leadership
GEO3D	Representation Geographical Information





PROJECTS (ARMY)

MIRA PLATIEEI MDNBO ORACULO **LITERACIA SAUDE** FEMALE LEADERSHIP **C4I** Elite **Climate NQB** FTS ALSAM **BP Protect**

Rapid Identification of Pathogens **Building Energy Requirements** Physiological Data in NBQ suits Analise of Available data in op. environ. Health and well-being Study and comparason Integration Veichle systems Exoskeleton **Climatization NQB equipment** Analise Risks Food Chain Impact additive solutions to supply chain **Develop Low Cost Breathing Unit**





CENTRES OF COMPETENCE

CCPI Protection of Infrastructures

CCB Ballistics (financed for construction)



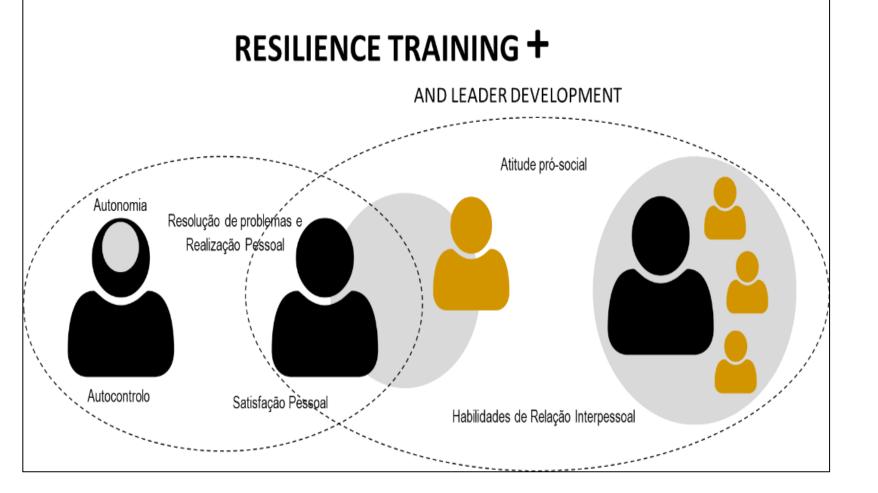
PARTE III

• SOME RESULTS



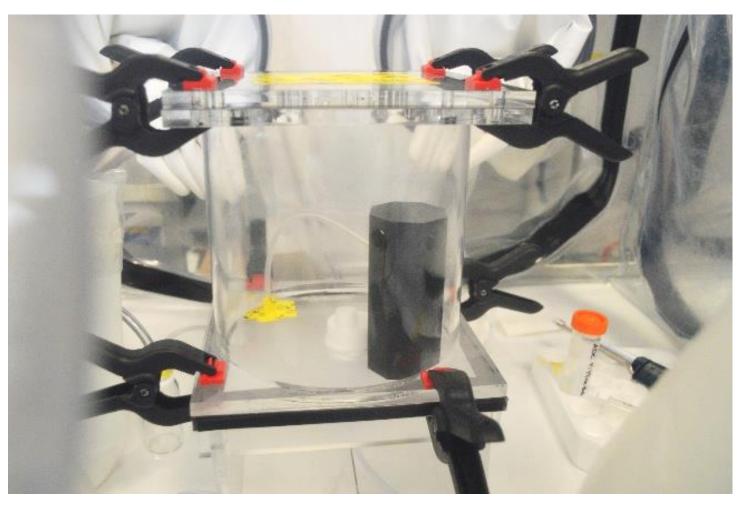


Resiliense Training and Leader Development





Portable System for collecting bio-aerosols



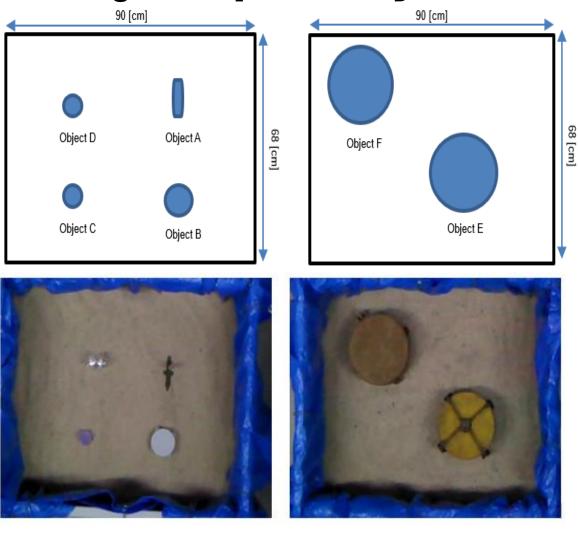


Bio-Decontamination of Masks for Re-use





LandMine Detection using multiespectral analysis

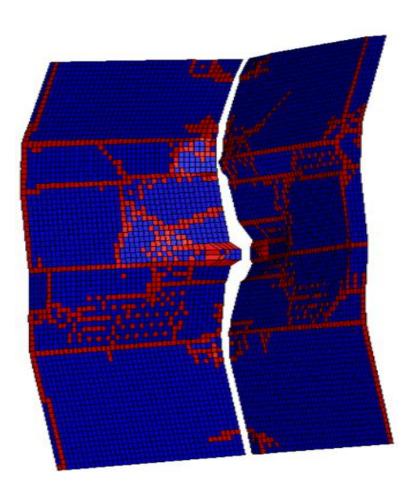






Protection of glass surfaces subjected to explosions







Obrigado , danke , dziękuję , vă mulțumesc , ευχαριστώ , merci , gracie, благодарим ви , **Děkuji**

THANK YOU



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