WEBINAR TERRESTRE

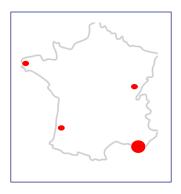
CNIM SYSTÈMES INDUSTRIELS, KEY PARTNER FOR ENGINEERING UNITS

SUPPORT & PROTECT FORCES IN OPERATIONS





ABOUT CNIM SYSTÈMES INDUSTRIELS



- French OEM and industrial engineering contractor on strategic markets (defense, nuclear, space and semiconductors)
- Head office and industrial tool in La Seyne Sur Mer (83)
- Serving governements, local authorities and major private or public companies
- 100% subsidiary of REEL Group since 2022

CNIM Systèmes Industriels

4 40

Millions € of turnover

Employees Millions € of turnover

REEL Group

2500

Employees







CNIM SYSTÈMES INDUSTRIELS, DEDICATED TO MILITARY ENGINEERING SINCE 1970





Special-purpose vehicles









A GLOBAL OFFER TO ADDRESS CHALLENGES AND TRANSFORMATION OF FORCES





THE CHALLENGES OF CROSSING

Crossing is back in the forefront



Tense geopolitical context



Many watercourses and other hydrological features challenges to overcome





The speed of military tactical operations must be fast: a few lost moments can leave soldiers vulnerable to enemy fire, and thus complicate troop deployment.



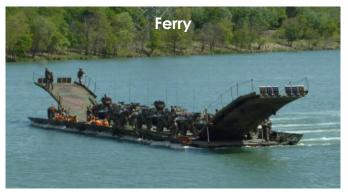


THE PFM, A 3-IN-1 BRIDGING SYSTEM

BOTH A BRIDGE, A FERRY AND A SHORT GAP CROSSING CAPABILITY, THE MOTORIZED FLOATING BRIDGE (PFM) IS A SPECIFIC EQUIPMENT THAT ENABLES MILITARY OR CIVILIAN VEHICLES TO CROSS WIDE WET GAPS.



Quick implementation, safe crossing and a full adaptation to the bank without preparation



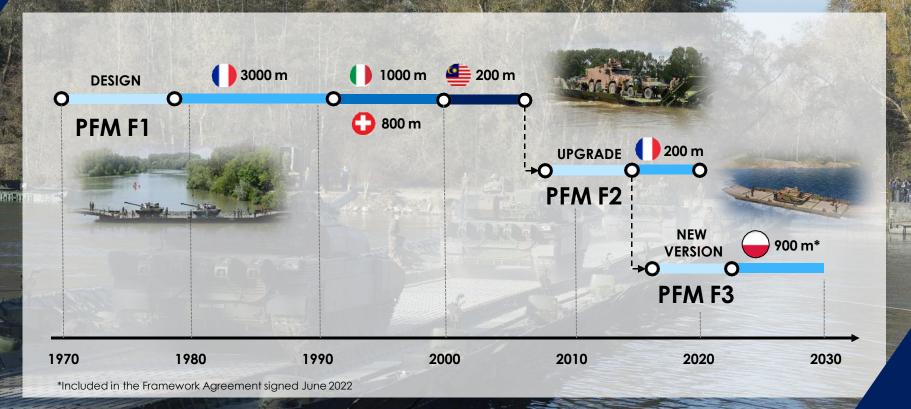
Modular Ferrying Capacity up to a maximum class of **MLC 90T / 100W**



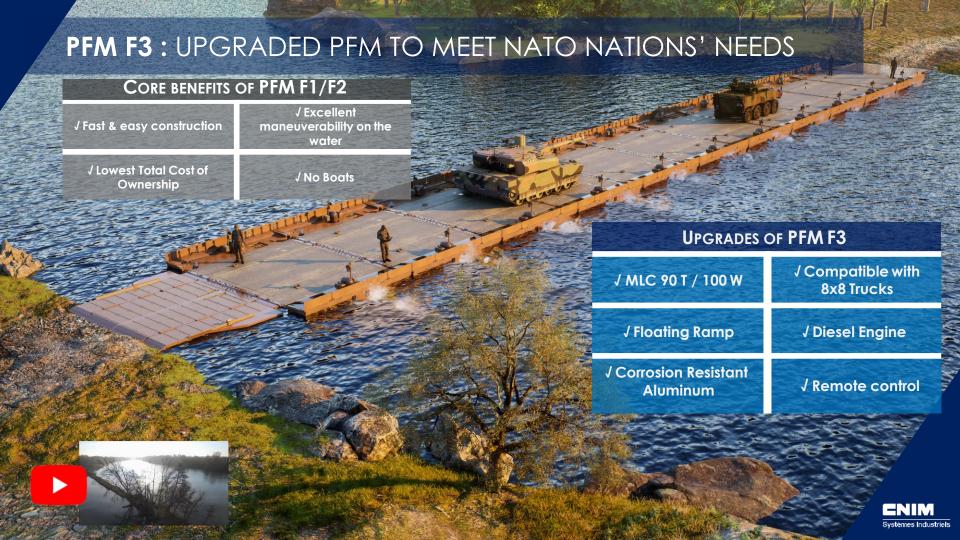
Alone and launched by the semi-trailer, the access ramp can be used to cross **dry**gaps up to 10 m.



PFM: A CONTINUOUSLY IMPROVING FLOATING BRIDGE







2015-2020: UPGRADED PFM TO MEET NEW OPERATIONAL CHALLENGES

Modernizing the PFM





Latest new features (French Army – 2020)
/ Reduced logistic footprint: integrated short ramps

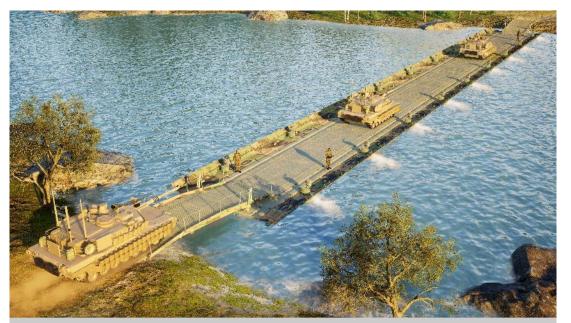
/ Personal reduction: piloting modules with **single remote control**





2022-2025: PFM NEW GENERATION

The latest version of the Motorized Floating Bridge (LG configuration), to be delivered to the Polish forces

















THE PFM F3 PRODUCT RANGE

The PFM F3 has modular design, configurable to address a wide variety of customer, it consists of 4 sub-systems that have two standard configurations*: LG or XP



LG

XP





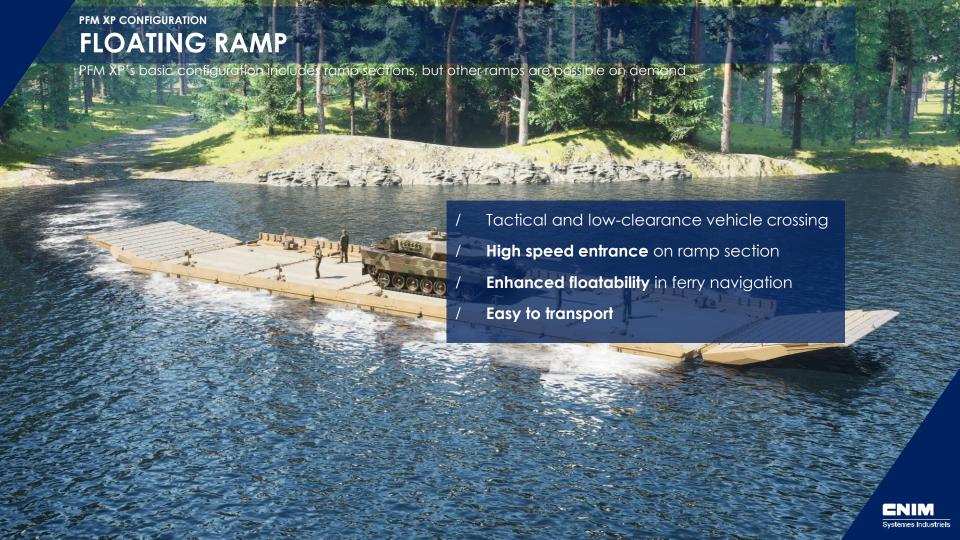


*Other configurations are possible on demand









PFM, KEY PERFORMANCES



100m bridge in less than 30minutes



MLC: 90T/100W



200 vehicles/hour



2,5m/s current speed

100m bridge = 18 engineering staff + 11 drivers







THE ROCUS
ROUTE CLEARANCE UNMMANED SYSTEM

INSÉRER UN TAMPON COMBAT PROVEN





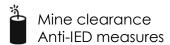
LAND ROBOTICS

Maintaining, supporting and enhancing combatant capabilities

Robotic systems increasingly play an essential role in ground operations. They provide **crucial support for manoeuvres**, by:
/ protecting soldiers

/ performing repetitive, tiresome and/or hazardous tasks

They have **multiple applications**, in even the most extreme conditions:













ROCUS, ROUTE CLEARANCE UNMANNED SYSTEM

Keeping convoys moving and enhancing mission safety

Route clearance operations must overcome two challenges:

- time pressure,
- the potential threat of hostile fire.

The rugged, autonomous and easy-to-use ROCUS UGV enhances military capabilities and reduces soldiers' threat exposure.







ROCUS, OPTIMAL OPERATIONAL PERFORMANCE

Rugged, simple-to-operate equipment

Ground blade for obstacle clearance operations

- → Able to strip ground to a depth of 10 cm
- → Up to 2 tonnes of blade thrust

Rake/hoe tool to dig into and break up ground

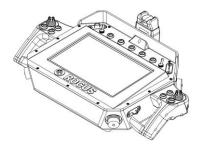
- → Up to 330mm diameter
- → 100kg gripping force

Grapple and winch

→ Up to 2 tonnes

Controlled by an unified command system











A COMBAT PROVEN SYSTEM

THeMIS UGV



Ultra-mobile



Equipped with state-of-the-art sensors



Modular



Designed for extended operation

The THeMIS UGV has been fielded successfully by numerous armed forces











ROCUS

7 ROCUS deployed in Ukraine since June 2023







ROCUS, ADVANTAGES

Enhancing military capabilities in the field

ROCUS gives users **OPERATIONAL ADVANTAGE**:

- → **Tracked vehicle** > High mobility and low ground pressure
- → Reduced logistical footprint > Single remote operator
- → **Towable across any terrain** > Easy projection to the mission theatre
- → **Hybrid vehicle** > Uses the same fuel as the convoy vehicles
- → Easy through-life servicing > Off-the-shelf civilian spares
- → Suitable for air transport
- → Configurability / Modularity > from mule to ROCUS et from ROCUS to mule

Designed to operate in difficult terrain, ROCUS delivers a winning combination of extended range, rugged construction and ease of use.









ROCUS, KEY PERFORMANCES



Speed: 20km/h



Endurance: 10h



Reach of the manipulator arm: 4m

Lifting capacity: 120kg



Arm rotation: 335°



Easy to use:

→ BIRD VIEW mode

→ User-friendly interface







2024 ROCUS NEW FEATURES



An unified command system

All ROCUS information at your fingertips:

- → **Software integration** > Ability to integrate all types of software
- → Video streams > View all live video streams in high quality
- → One-handed robot control > lightweight nunchuk
- → **Displays all robot data** > Batteries, Speed, Distance, etc.









2024 ROCUS NEW FEATURES

A constantly evolving UGV on customer request

Jammers:

→ Protective radius around the UGV > ensure maximum safety during operations





Winch and grapple kit:

- → Ensure that any explosive is located underneath a threat > anti-tank mines, 20L jerry cans or 155m shells
- → Freeing a stuck vehicle > 2-tonne winching capacity allows freeing itself or another ROCUS from complex terrain



Disruptor:

→ Threats neutralization > Pipe bombs, IEDs, UXO, UXB fuses, etc.











An operational partnership









AN OPERATIONAL PARTNERSHIP

SYSTEM & EARTH MOVING

ENIMSystèmes Industriels

MOBILITY

TEXELIS

DIGITALIZATION

KNDS







CSI, MANUFACTURER OF HIGH PERFORMANCE VEHICLES

Increase efficiency and safety

CNIM Industrial Systems designs and manufactures special-purpose vehicles.

Our vehicles are designed to operate in harsh environments for specific applications.

They handle operations of:

- → Clearance,
- → Landscaping,
- → Ammunications transport,
- → Crossing
- →

Highly mobile and **offering great stability**, our vehicles **ensure maximum safety for users and loads**.







THE AUROCH, COMBAT ENGINEER VEHICLE

Combat engineer companies must be equipped with a vehicle that enables them both to prepare the terrain and provide manoeuvre support for melee units.

AUROCH is suited for use during conflicts and natural disasters in clearing rubble and roads. The AUROCH is the answer to the requirements of:



Land development



Protection



Mobility



Support for a joint forces manoeuvre





THE AUROCH, COMBAT ENGINEER VEHICLE

AUROCH is able to adapt to each mission







THE AUROCH, COMBAT ENGINEERING VEHICLE

Enhancing tactical capabilities of Land Forces



Highly mobile → manœuvrable & off-road vehicle



Large earth moving capacity



Flexibility → arm equipped with interchangeable tools



Armored & armed → safety of sappers



Projection by air → air transportable in A400M





THE AUROCH, COMBAT ENGINEERING VEHICLE

LOADER CAPACITY

Digging a heavy tank firing position

Dimensions:

- → 1.5m depth
- → 4.5m width
- → 12m length (5m 30% access ramp 7m for tank location)

Deadlines of one hour maximum



Dimensions:

- →1.5m deep
- → 3.5m wide

Yield of 15m/h in length







THE AUROCH, COMBAT ENGINEERING VEHICLE

ARM CAPACITY

Dig a trench:

- → Dimensions: 90cm wide
- → Depth from ground level: 2.5m minimum
- → Yield of 15m/h in length

Lift/Move a load:

- → Mass: at least 3 tonnes
- → Lifting height: at least 3 meters
- → Useful range: at least 3 meters







