



- <u>Contain and degrade</u> the Russian Black Sea Fleet to remove Russian freedom of maritime and littoral maneuver
 - Black Sea Feet bottled up in ports
 - RU commercial traffic interdicted
 - Transnistria Moldova resupply option denied
 - Crimea isolated from Russia
- Protect and sustain ports and coastal shipping lanes
 - Prevent interdiction by BSF and conduct MCM and maritime security operations
- Impose dilemmas upon Commanders & C2 across maritime and littoral domain



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TACTICAL OPTIONS

1988-1991 2-1 (Navy), 2015

ussia [1992-] - 2018)

- Support UKR establishment of covert maritime **ISTAR capabilities** in Crimea and Russia
- Technical and operational support for UKR maritime raiding operations against RU maritime infrastructure
- **Provision of PGMs** for use by UKR coastal defence forces against Black Sea Fleet.
- Support for UKR to conduct maritime boarding and interdiction of Russian commercial Black Sea traffic
- Support for mine countermeasures to open Ukraine seaports

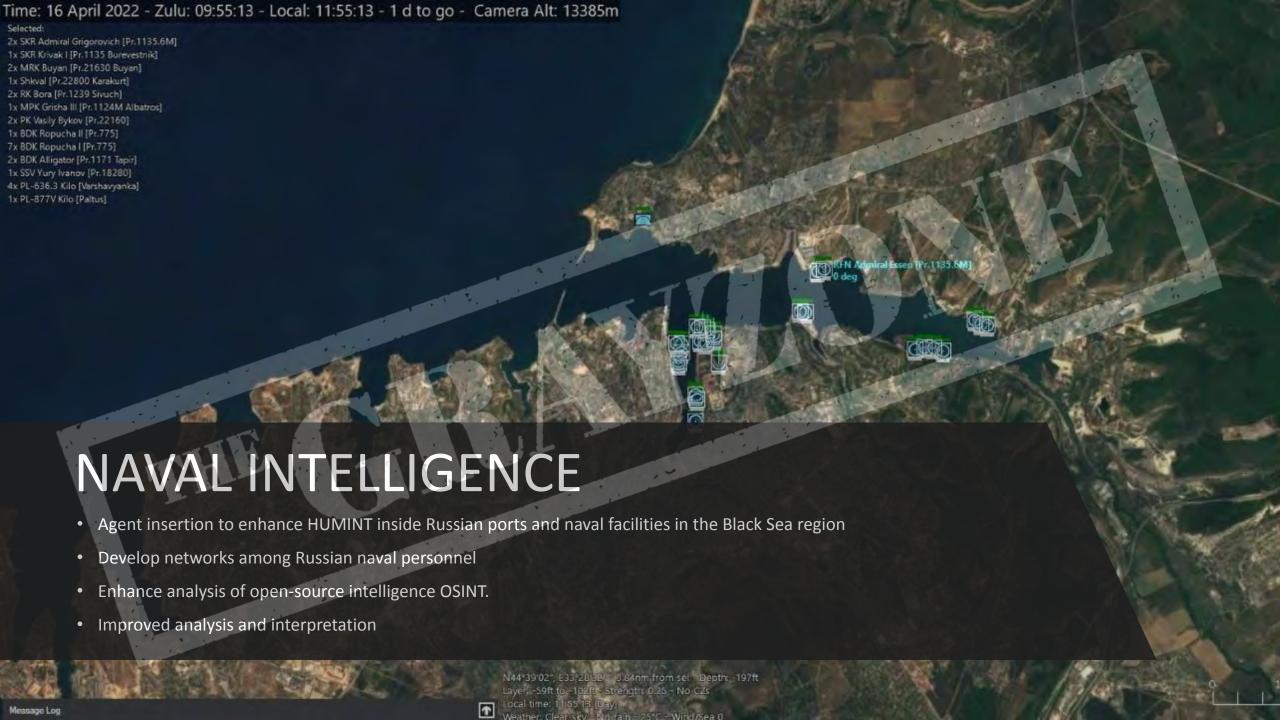


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- CGN Moskva provided a long-range air defence capability: her sinking leaves the RU fleet vulnerable to missile attack.
- This forces the Russian navy farther away from the Ukraine coast or into port, opening the potential for the Ukrainian Navy to launch littoral, inshore, coastal and riverine raiding operations.
- The exploitable sea area is relatively small just 160 nautical miles from Odessa to Sevastopol - this is well within the range of small assault craft.





RIVERINE OPERATIONS

 Russia has limited shipbuilding capability, thus the yards at Mykolaiv are a key objective;

 Inshore waterways are critical to the defence of the frontline at Mykolaiv;

 This Equipping and training a Ukrainian naval riverine Commando force is a priority to;

> patrol and ambush Russian engineers and Spetsnaz reconnaissance teams; and

 harass and degrade Russian forces in hit and run operations from the waterways.



RIVERINE EQUIPMENT

Urgent

- Raider assault craft, 10 Meter Rigid Inflatable boats (RIB) immediate issue of these craft will enable the UKN Navy to fit the platforms with their own weapon systems.
- RIBs are easier to deliver quickly to enable deployment of commandos in the support of Mykolaiv as a priority.
- DJI Maverick commercial drones for top cover.
- Night vision and thermal imagery cameras.

Longer Lead-Time.

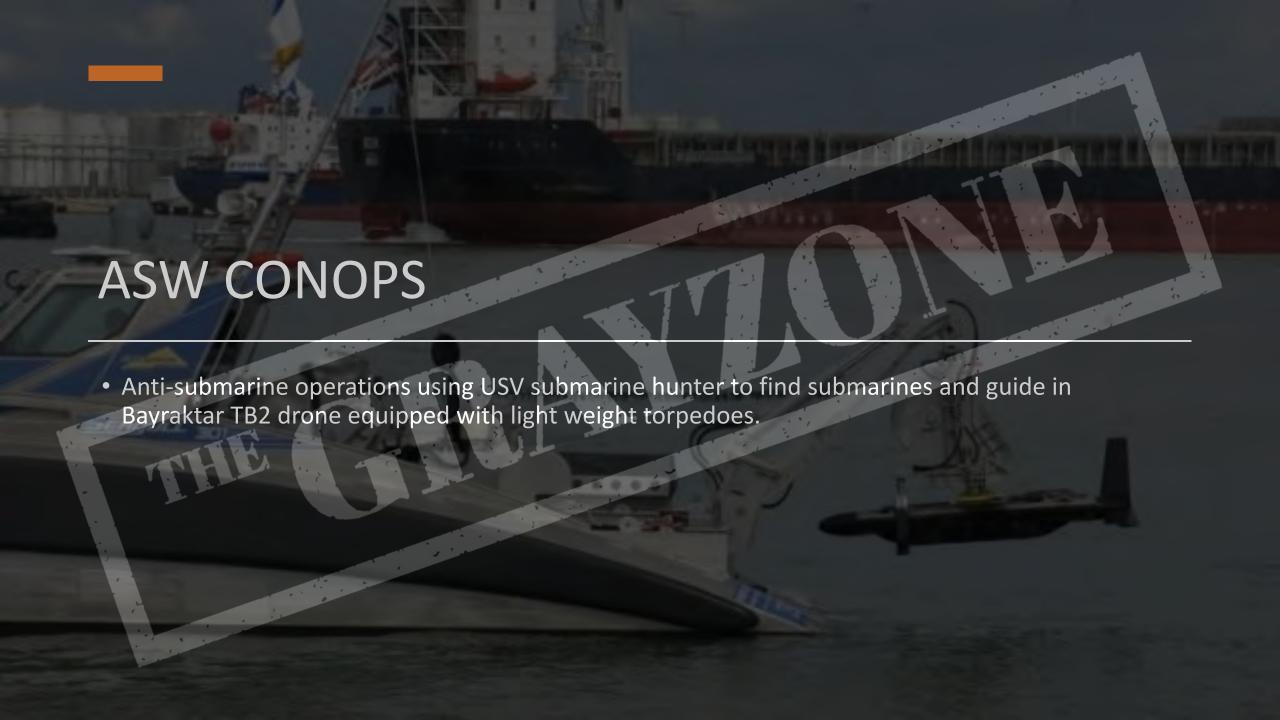
- Armored Offshore raiding craft ORC23 (UK) to provide fire support to RIBs and commando raiders.
- CB90 (Sweden) to act as fast deployment vessel carrying UKN Marines for hit and run operations.
- USV Oryx (Turkey) unmanned recon vessel (USV) equipped with a .50" remotely operated weapon station.
- Small military Gen3 drones.





HUNT AND DESTROY CONOPS

- Hunt and destroy any Russian patrol craft operating in Dniprovska Gulf and conduct beach reconnaissance from Kilburn Spit to Yahorlyk Bay.
- Identify good landing locations for a larger assault force for a future counter-attack.
- Establish a firebase and surveillance post at Ostrov Maysky an island in the middle of the Dnipro river estuary.
- Using disguised civilian vessels retrofitted with lightweight Torpedoes (Q-Ships) to target larger vesses, together with with CB90 fitted with Hellfire missiles to target smaller vessels.
- The destruction of coastal radar stations would enable a tactical group of CB90s to ambush small warships leaving Sevastopol.







MARITIME BOARDING CONOPS

- The navy to conduct underway training to enable them to seize vessels owned by Russian ship owners on the US, EU, UK sanction list.
- he seized vessels could be used offensively in a diversion attack against Sevastopol to cause confusion and cover for UKN naval vessels.
- The seizure of sanctioned vessels will hurt the Russian economy and force Russia to deploy Private Military Contractors (PMCs) to protect the vessels taking Russian manpower away from the war.

COASTAL EQUIPMENT

Urgent

• 10-meter RIBs, Javelin, MANPADS, night vision, thermal imagery, tactical drones.

With Lead Time

 CB90 Combat Boats Hellfire equipped, Armored Offshore raiding craft ORC 23, USV Oryx, and Ulag (Turkey) fitted with anti-tank missiles as standard if available.

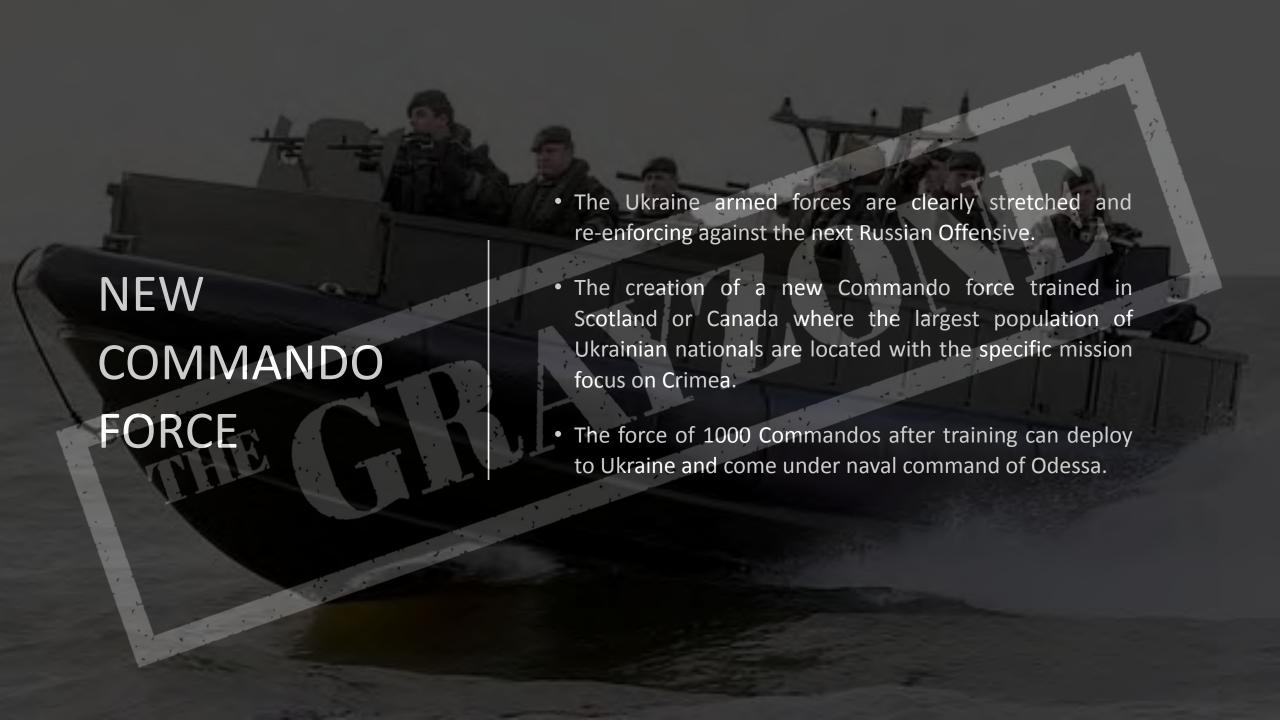
 Anti-submarine USVs, mini-submarines, Swimmer Delivery Vehicle (SDV).







- •Russian anti-ship capability is able to target any ship in the Black Sea Crimea is home to the highest concentration of anti-ship missiles in the world, hidden in the cliffs around the peninsula.
- •The main facility has the Utes Complex or Object 100. The complex has the dated Utes Coastal defence missile system, 3M44 missile (Nuclear capable) and other anti-ship missile systems.
- •The 300P Bastion P mobile anti-ship missile system has also been deployed to Crimea.
- •It is in the interest of Ukraine and NATO that this facility is damaged or destroyed as a long-term objective.

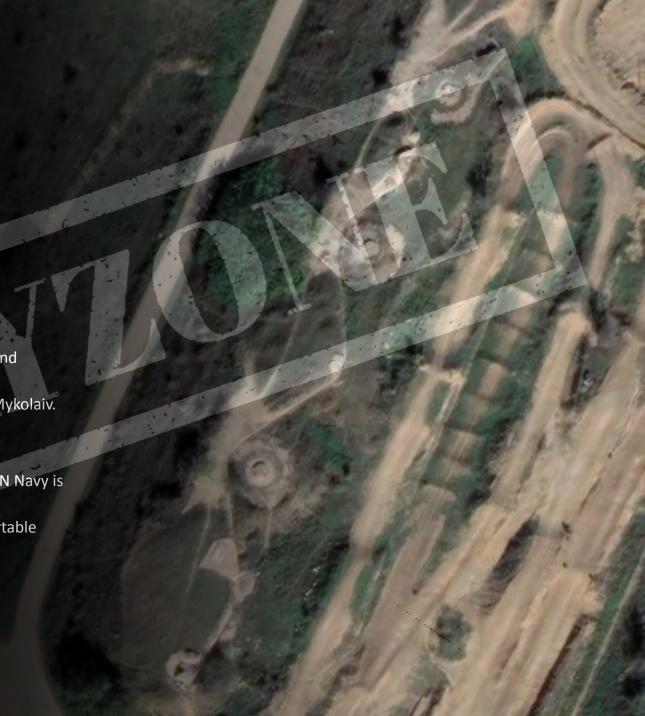




- The Achacarry principals should be the guide for training in a modern context and input from the new Commando Force currently being developed by the Royal Marines would be useful.
- Recruited from ex-military Ukrainians abroad but open to other nationals with relevant experience.
- Basic training should be completed by the unit in the use of all troop weapons including mortars, anti-tank manpads, sniper craft, cliff assault, small craft training, ship boarding techniques, demolition ground and subsurface, combat swimming, swimmer delivery vehicles, anti-ship mines, drones, cyber, signals, electronic warfare, jamming. Full orientation of Crimea and the Ukraine coastal area and target recognition Russian forces and equipment.
- Specialist training for chosen men (Russian speakers) in covert undercover missions advanced small arms training, sabotage training to disrupt civil installations such as electrical sub stations, railways, cyber, hacking skills, locksmith training, advanced unarmed combat, target training to identify high ranking military officers for assignation while off duty in Crimea.
- Equipment for training. to be identified in planning.



- Locate and destroy mobile missile vehicles such as the Bastion in Crimea.
- Locate and destroy hardened coastal radar systems such as Feodosiya station and others.
- Work behind enemy lines in hit and run operations to support the defence of Mykolaiv.
- Combat swimmer and SDV mine operations against Russian warships docked in Sevastopol.
- Conduct a large-scale Commando assault of Utes missile complex when the UKN Navy is capable enough to support a diversionary attack on Sevastopol.
- Attacking and harassing Russian naval ships transiting the Kerch strait using portable missile systems.
- The use of unmanned submarines to attack auxiliary ships in port.





- •The UKN Navy needs mobility to pose a threat to Russian naval forces.
- •The development of a small specialist maritime raiding capability using commercial training and equipment shipped by merchant vessels or by road through Romania can achieve this.
- •Russian outdated doctrine will struggle with a highly motivated and well-equipped naval force conducting hit and run operations.
- •A new Ukrainian commando force will bring shock and awe, hitting high value targets breaking the morale of the Russian naval forces.

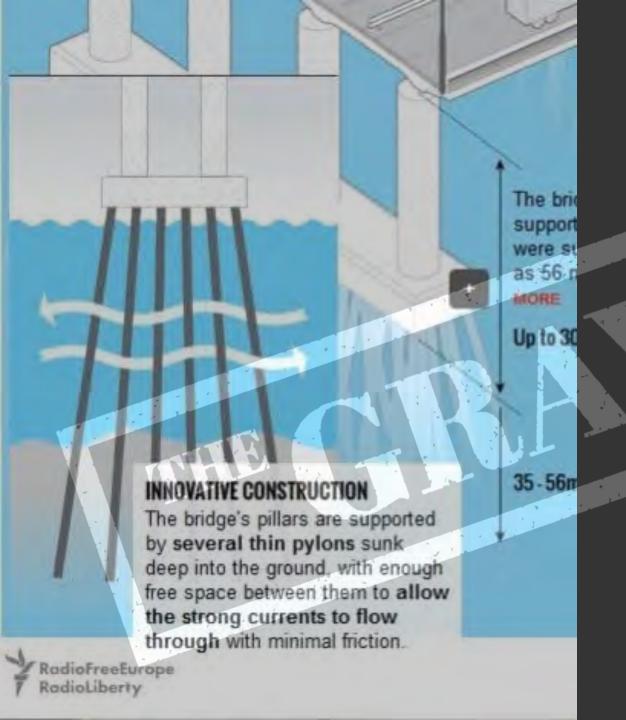


ANNEX – KERCH BRIDGE OPERATION

•Mission. Disable the Kerch Bridge in a way that is audacious, disrupts road and rail access to Crimea and maritime access to the Sea of Azov.

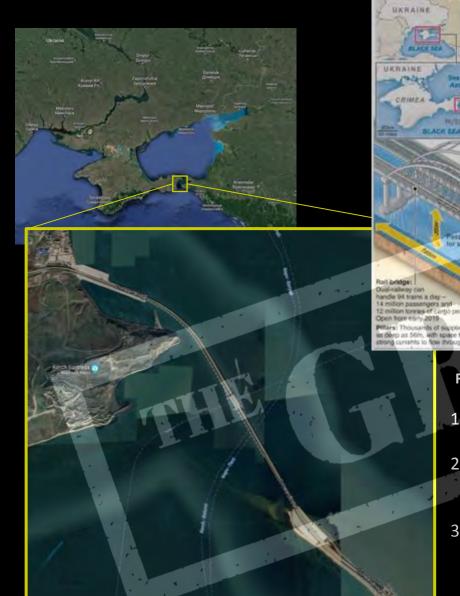
- •Scheme. Assume 20 Piles and 10 need to be "cut". Assume each pile is 1.4m diameter steel pipe with a wall thickness of 40mm. Team of Attack Divers and or UUVs equipped with Limpet Mines and Linear Cutting Charges.
 - Disable the piling of the highlighted section of KB (Russian Side) Minimum of 2 cuts 2m apart.
 - 2. Sink the Guard Ship/a ship in the KYC under the KB.



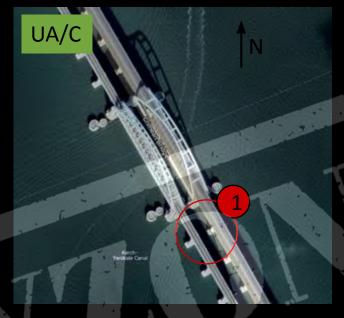


DECISIVE POINT: BRIDGE DESIGN FLAW

- •Key weakness is several thin pylons used to support the main span.
- •The rest of the foundation is made of steel pipe piles of 1,420 mm in diameter with wall thickness of 16, 20 and 40 mm.
- •The highway section foundation numbers more than 2,500 piles of this type with depth from 23.5 m (Kerch side) to 89 m (Tuzla split).
- Total weight of all pipe piles in the highway section foundation exceeds 12,500 t, total length is more than 160 km









Factors:

- 1. The Kerch Yenikale Canal (KYC) is ~8.9m deep and provides a single navigable route for large ships under the KB.
- 2. The deck of the KB is $^{\sim}30m$ above Sea Level and supported by pillars which are supported by steel piles (35 56m long). The depth of the water around the pillars of the KB is $^{\sim}10$ m. This is the weakest part of KB.
- 3. Do the RU Armed Forces know how vulnerable the KB is to destruction? What countermeasures could be expected?

