

Russian Navy Submarines



H I Sutton, May 2023

Russian MoD

H I Sutton

Independent Defence Analyst
Focus on the hardware
Open Source Intelligence
(OSINT)

Caveats Apply



How It Started....





Russian Submarine timeline



- AKULA
- OSCAR-II
- TYPHOON



- Yasen
- Borei



- Downsizing
- Cancellation
- Low Activity



Modernization of SSBN fleet



DELTA-IV



DOLGORUKIY (Borei / Borei-A)



Modernization of SSN / SSGN fleet



OSCAR-II
AKULA-I/II/III
SIERRA-I/II
VICTOR-III



SEVERODVINSK (Yasen/Yasen-M)



Pr. 885M SEVERODVINSK (Yasen-M) Class

- More stealthy
- Heavily armed with supersonic missiles (32 VLS)
- Both Anti-Ship and Land Attack missiles
- Built in numbers – 4 in water, 9+ planned



'Kaliberisation'

- Land attack (SS-N-30A SAGARIS)
- Supersonic anti-ship (SS-N-27 SIZZLER)
- Already carried by Conventional submarines
- Expected to be added to most nuclear attack submarines and older cruise missile submarines

Kalibr launch - TASS



Ukraine



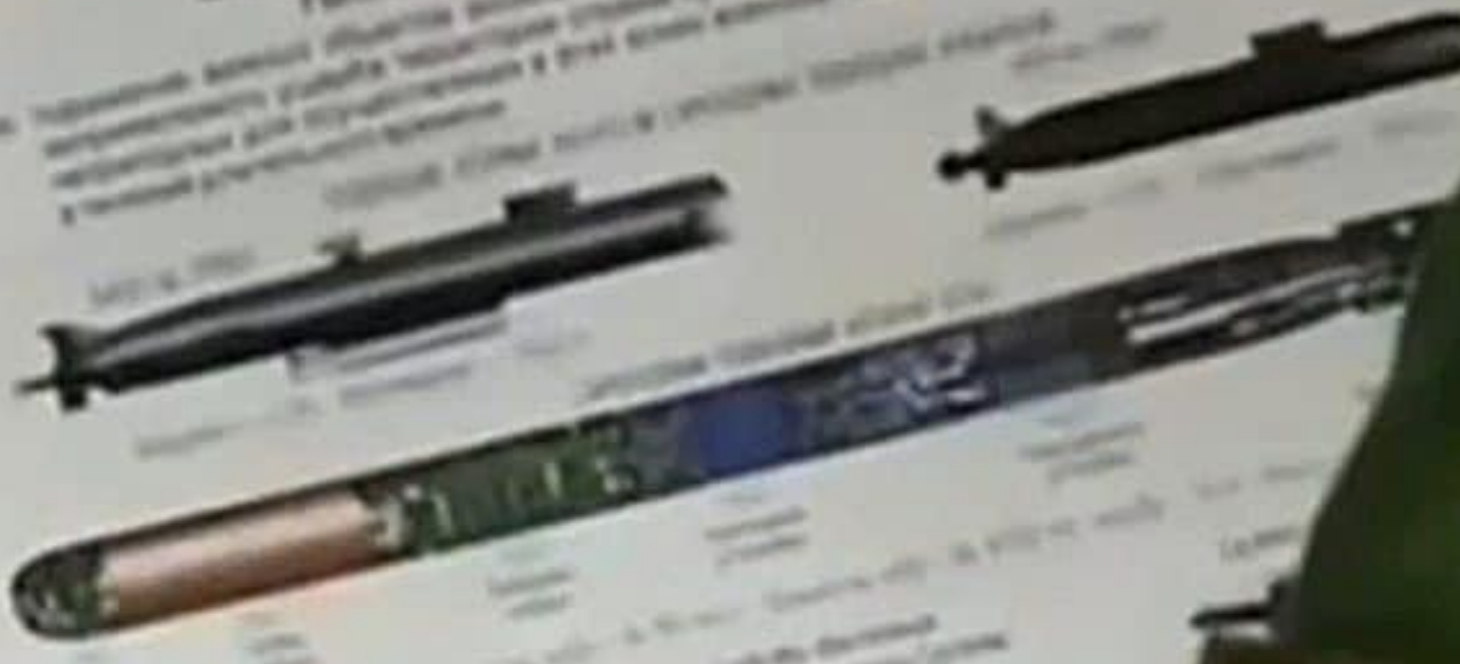
‘Zirconisation’

- Hypersonic
- Significant range
- Only in vertical tubes



Сочи

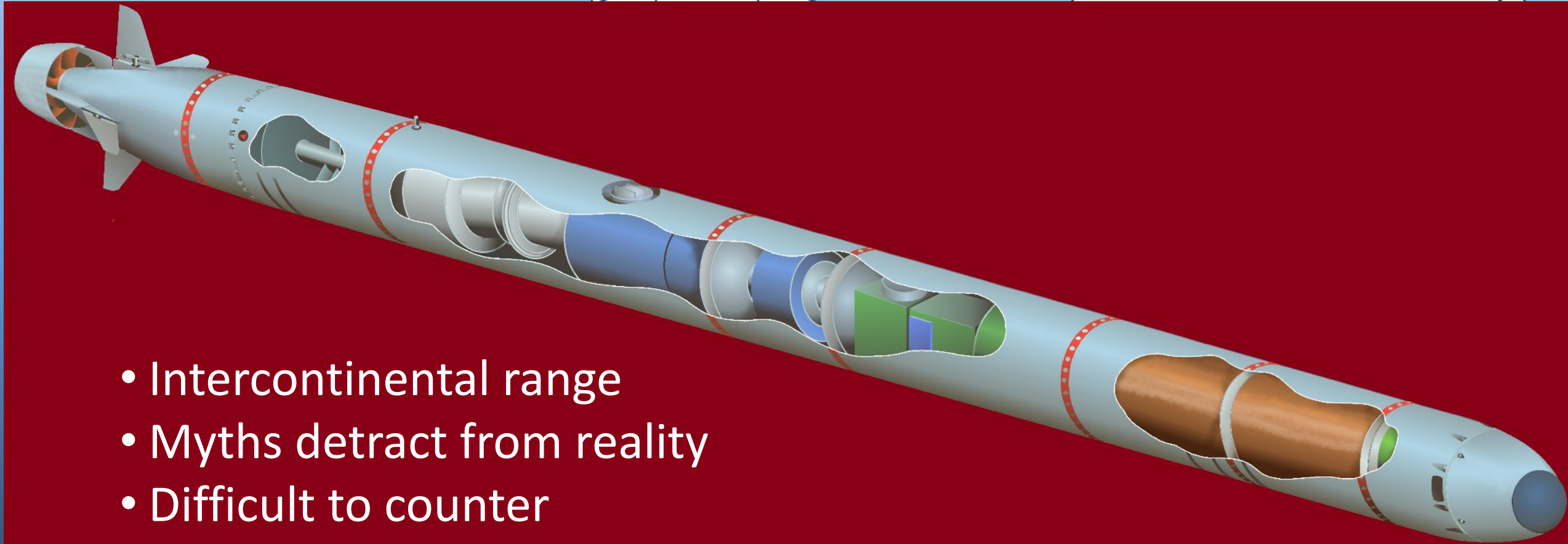
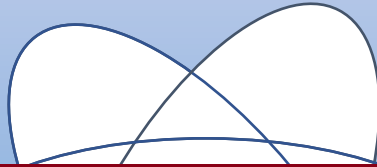
ОКЕАНСКАЯ МНОГОЦЕЛЕВАЯ СИСТЕМА
Гидрономическая - ОАД ТУРБ МТ



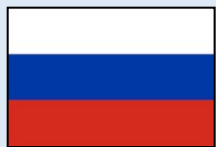
Poseidon



Poseidon

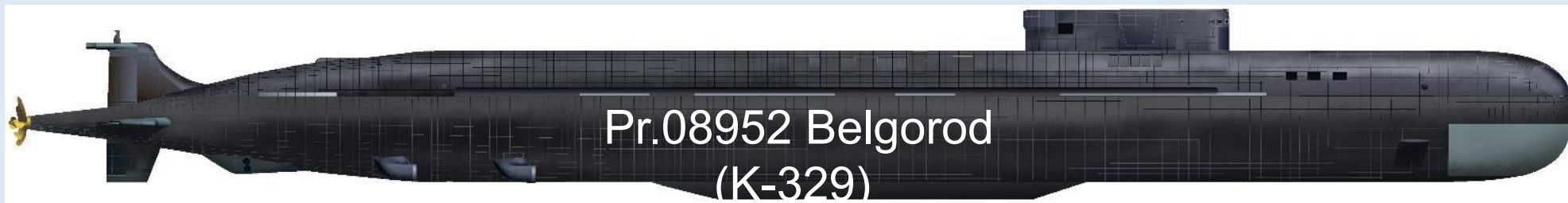


- Intercontinental range
- Myths detract from reality
- Difficult to counter
- Tactical and Strategic Nuclear?
- Pacific or Atlantic?



4 host submarines expected by 2030s

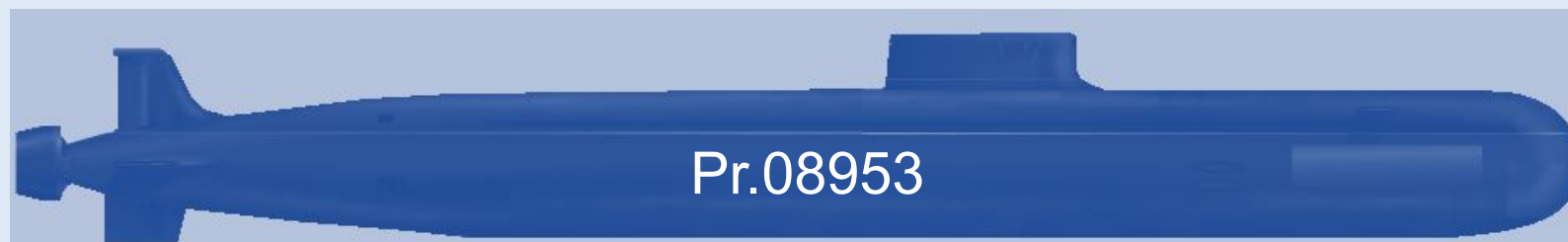
1 Commissioned



1 Under
Construction



2 more planned

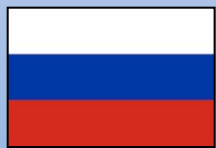




GU

GI

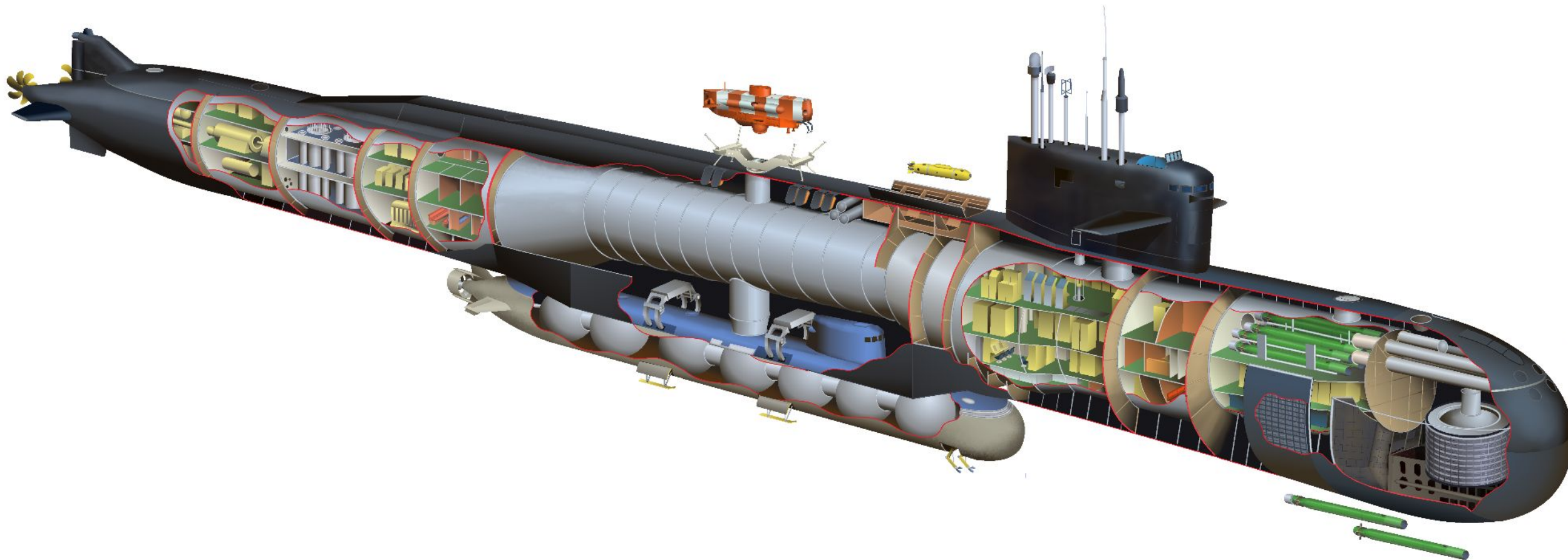
Главное управление глубоководных исследований
Glavnoye upravlenie glubokovodnikh issledovaniy



Project 09787

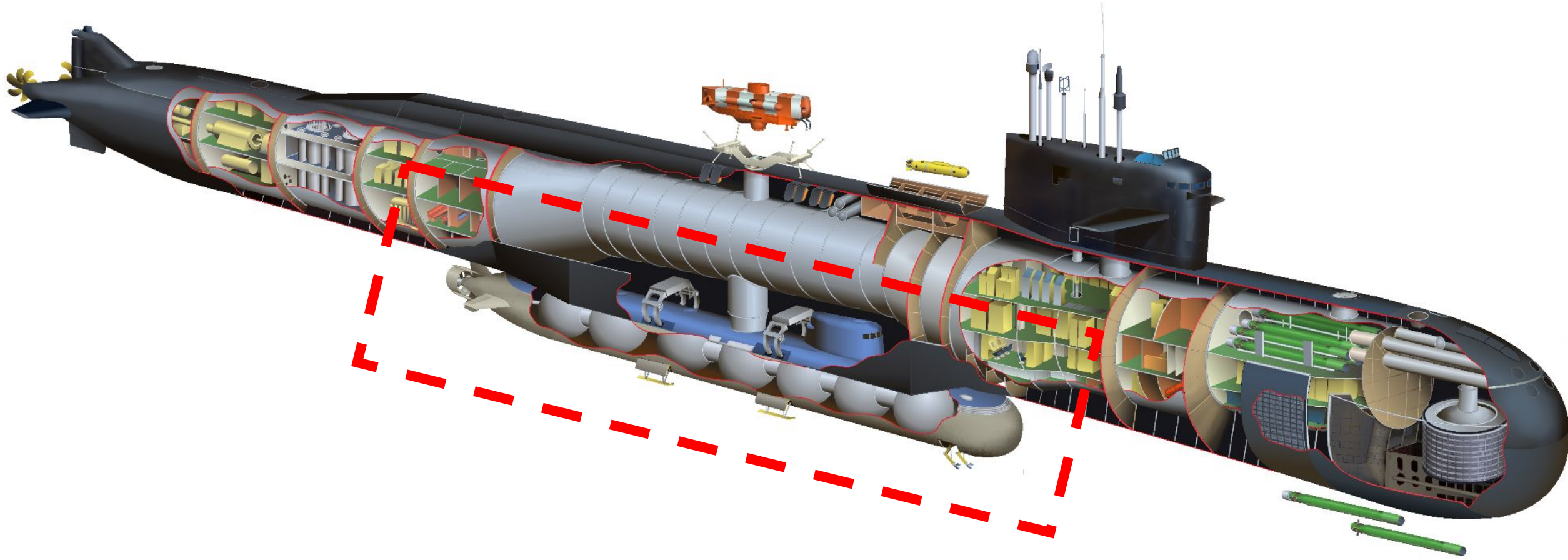
BS-64 'Podmoskovye'

Provisional. Based on Analysis of Open Sources



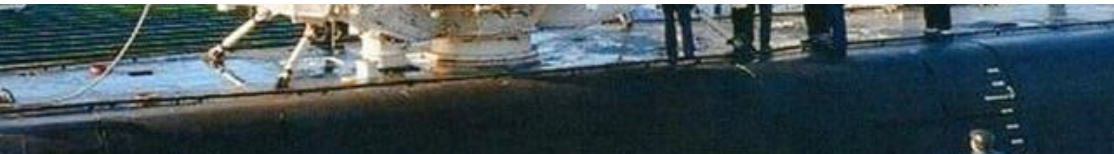
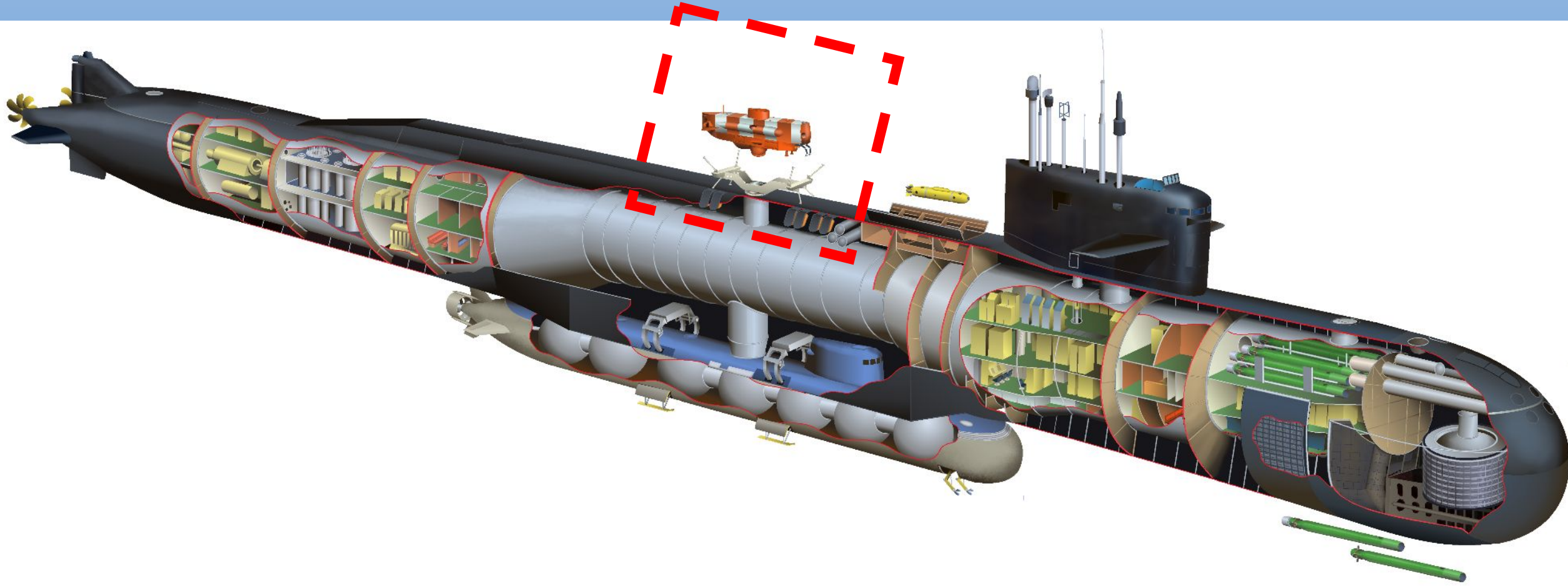


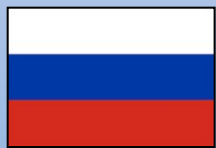
LOSHARIK or PALTUS AGS



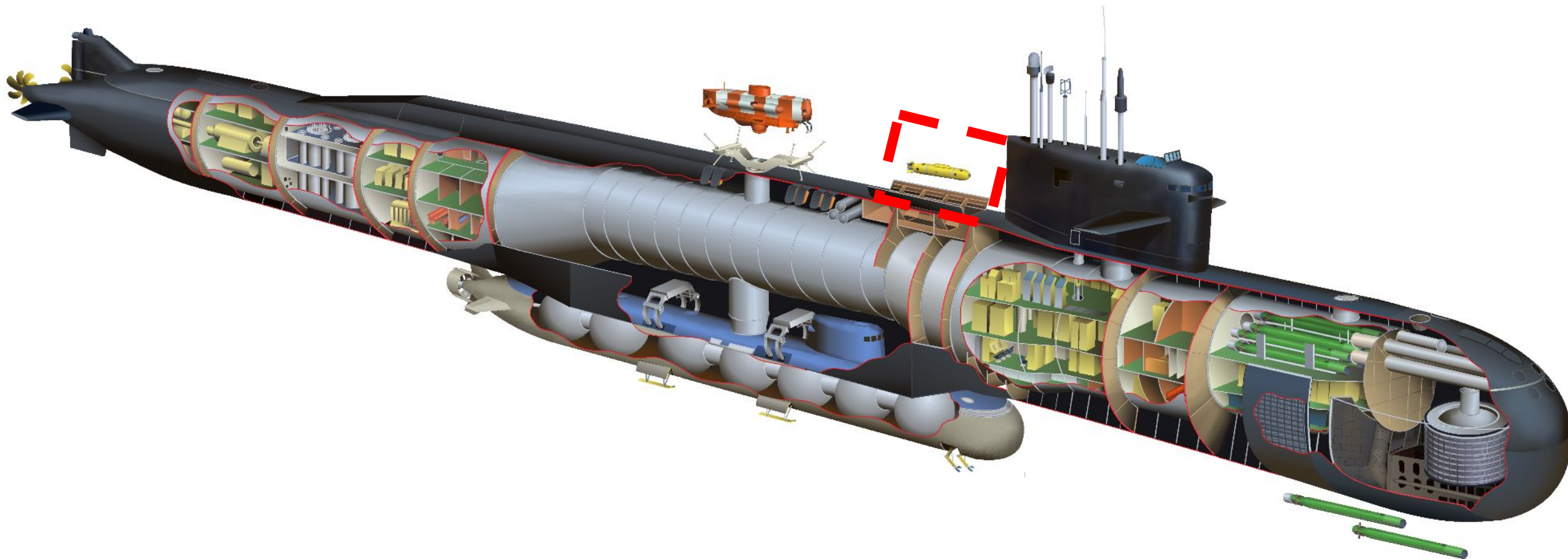


I found Nemo





Klavesin-2P-2M (Harpsichord) AUV





GUGI Fleet (estimated 2023)

Host Submarines
(SSAN)



BS-136



BS-64

Hosted
Submersibles
(AGS)



AS-31 Losharik



AS-21, AS-35
PALTUS

Submersibles
(AGS)



AS-13, AS-15
UNIFORM



Conventional Submarines





Modernization of SSK fleet



KILO / Improved-KILO



LADA

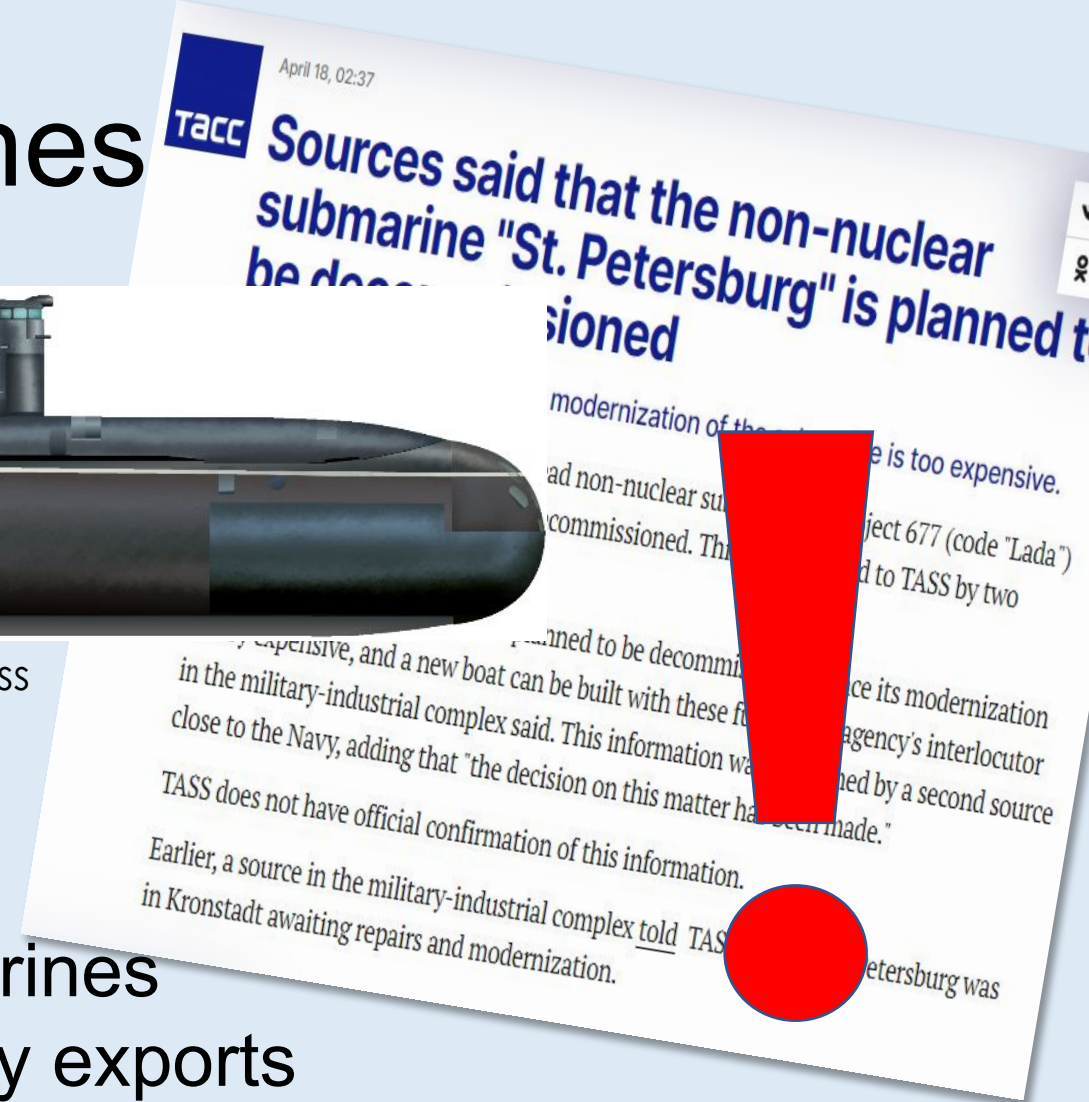


Conventional submarines



Pr. 677 LADA Class

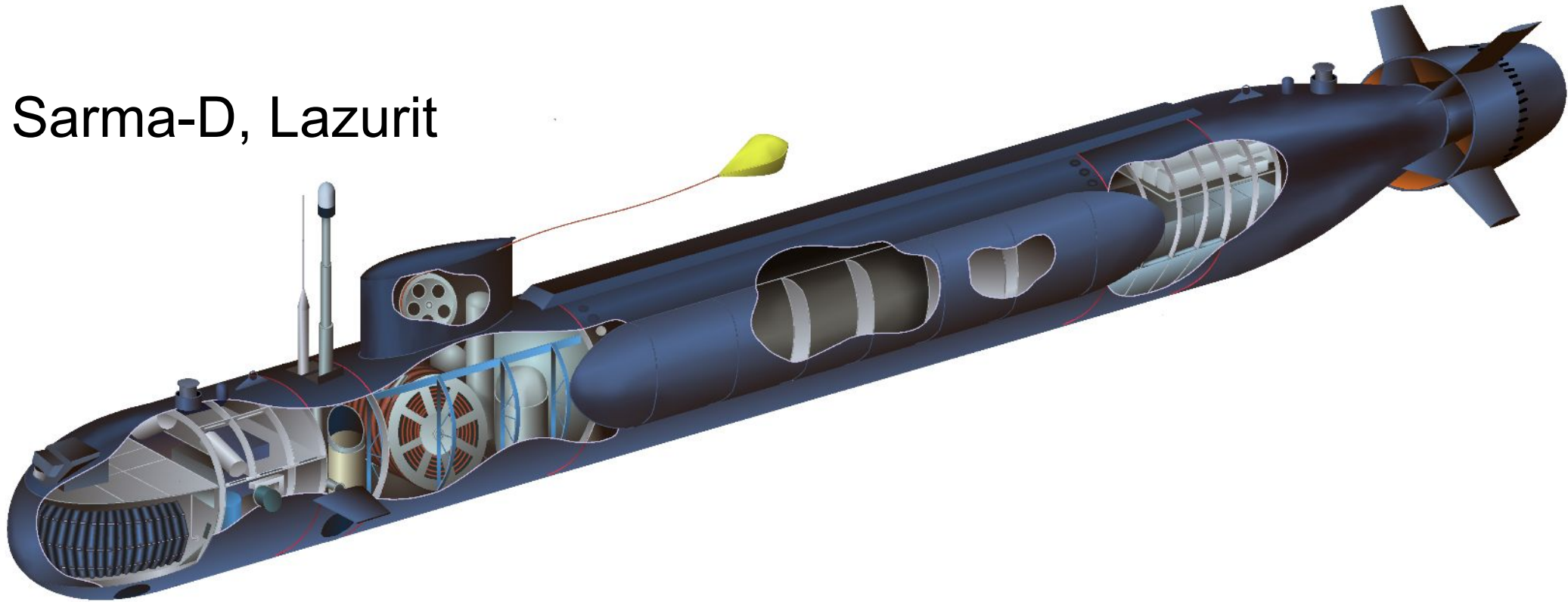
- Cruise missiles
- Less investment than nuclear submarines
- Benefited from, and also held back by exports
- Slow development, no AIP (air independent power)





XLUUVs Ambitions

Sarma-D, Lazurit



New Rubin facility
in St. Petersburg





How It Started....





How it's going

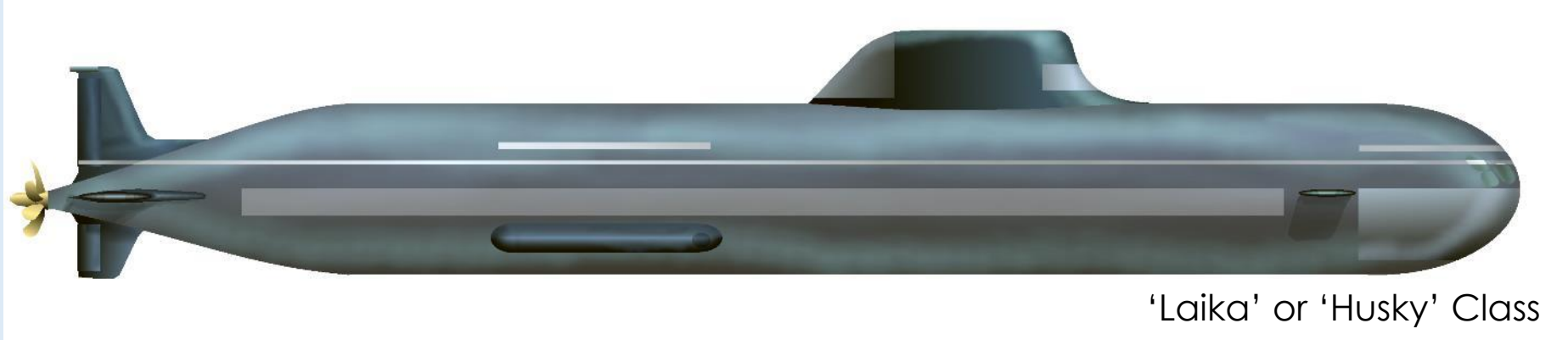
- High-quality SSBN & SSGN
- New weapons developed – Zircon, Poseidon
- Conventional submarines lagging, UUVs mixed
- Future capabilities may be constrained by economy



Project 885M Krasnoyarsk before floating from Workshop 50, Severodvinsk, July 2021



Future submarines (obvious caveat!)



- Blurring of attack and cruise missile submarines
- Relatively conservative design expected
- Optimistically: 2030s or 2040s

It's time Captain

Thank You

