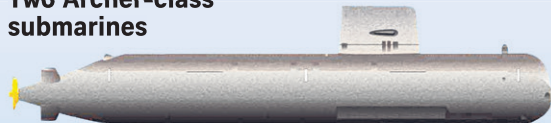


# New sub packs greater firepower

The Republic of Singapore Navy's first newly-built submarine will be able to stay submerged longer, have greater firepower, and more capable sensors. Named Invincible, it will be the first of four Type 218SG submarines customised for Singapore's needs.

## CURRENT FLEET (TO BE REPLACED)

Two Archer-class submarines



Two Challenger-class submarines



## NEW FLEET

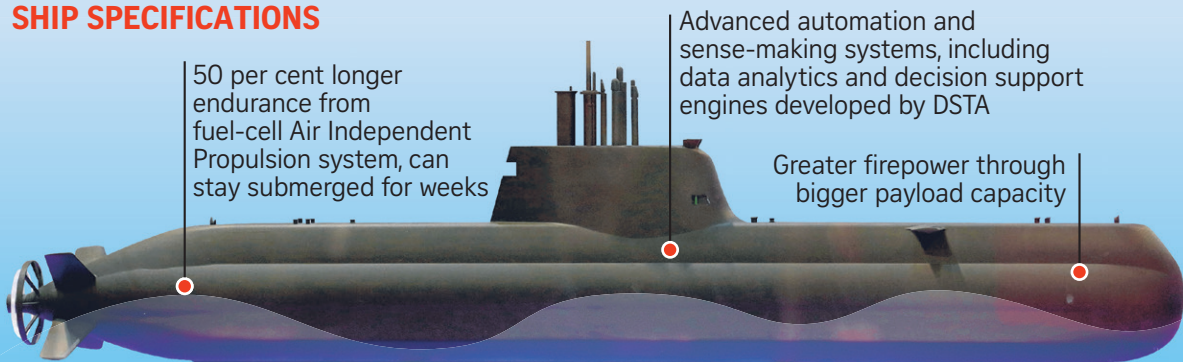
Four Type 218SG submarines – named **Invincible, Impeccable, Illustrious and Inimitable** – will be delivered from 2021 onwards.

## SHIP SPECIFICATIONS

50 per cent longer endurance from fuel-cell Air Independent Propulsion system, can stay submerged for weeks

Advanced automation and sense-making systems, including data analytics and decision support engines developed by DSTA

Greater firepower through bigger payload capacity



(NOTE: Invincible is built. The other three are under construction.)



Length of Invincible **70m**



Length of SMRT train **138m**

Surface displacement **2,000 tonnes**

Submerged displacement **2,200 tonnes**

Speed (Surfaced)



>10 knots

Speed (Submerged)



>15 knots

Armament



8 torpedo tubes

Complement



Crew of 28

## TYPE 218SG TIMELINE

2013 Deal signed with thyssenkrupp Marine Systems to buy two new submarines

2017 Defence Minister Ng Eng Hen announced purchase of two more, bringing total to four

2019 First Type 218SG launched in Kiel, Germany. Sea trials and crew training to commence in Germany

2021 First Type 218SG to be delivered

2022 Second sub to be delivered

From 2024 Last two to be delivered