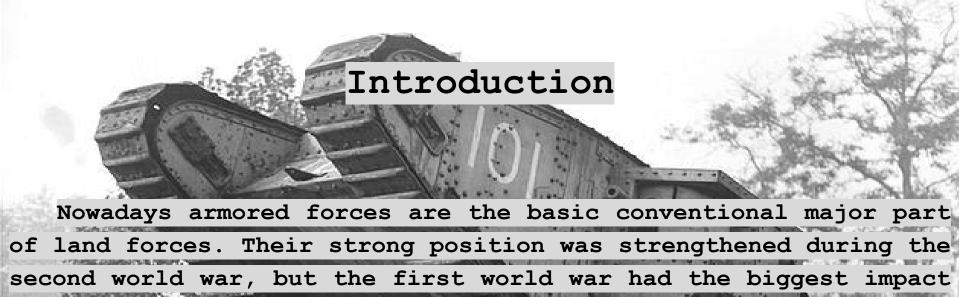
World War I tanks and their impact on future warfare - how new inventions changed the battlefield?

French tanks - Wiktoria Wrzyszcz British tanks - Mateusz Szkoła

German tanks and graphical design - Olga Jakubanis

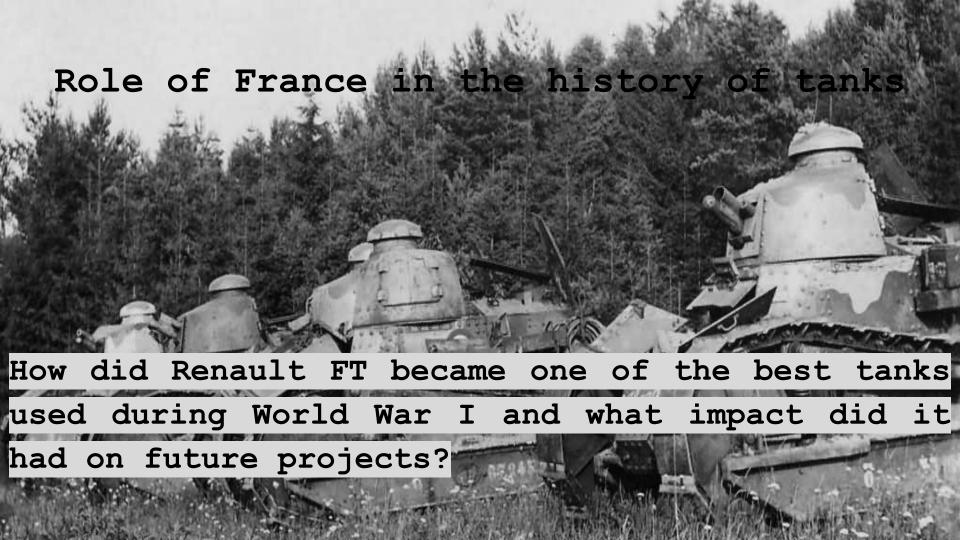




Role of tanks at the beginning

At first, tanks were used as a support for soldiers and breaking lines of defence. This doctrine has been changed with time as tanks started to be seen as individual firepower that could be used in combat. This led their development in order to make them faster, lighter and even more deadly.



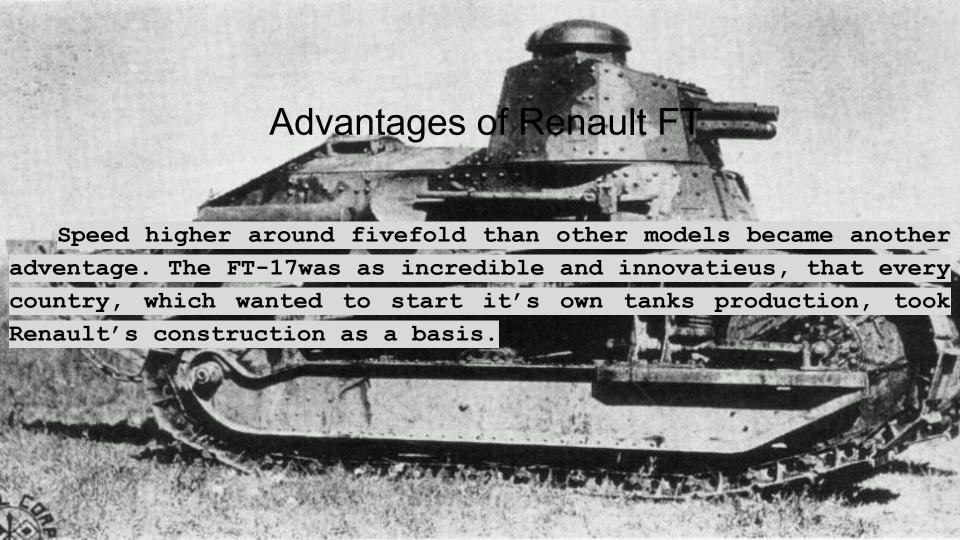


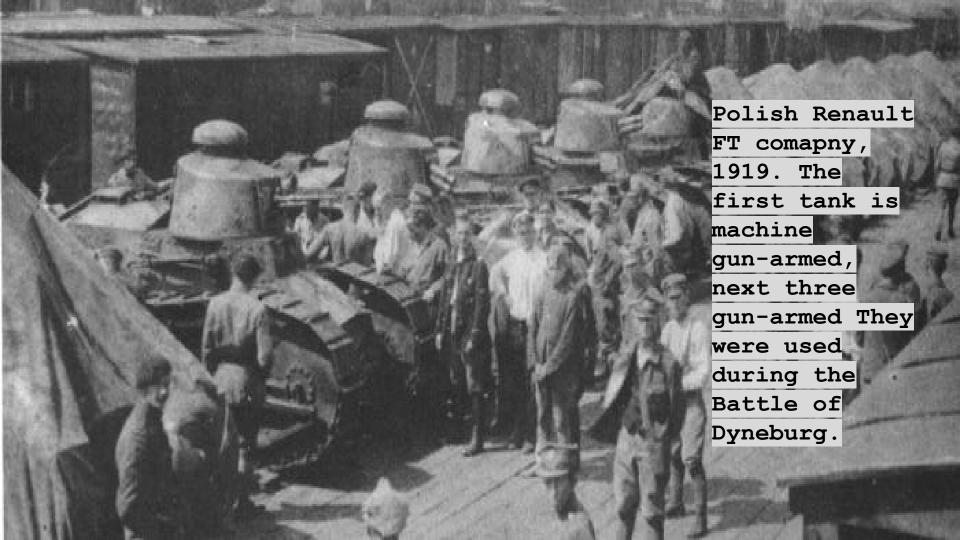
Introduction and first projects

The first time, that France appeared in the history of tanks was inventing the vehicle with the cannon and tracklaying drive in 1903. It was called Levavasseur. The real expansion of tanks started during the First World War. Till today historians dispute who was the first to use the combat vehicle: Great Britain or France? Country, that's Germany neighbour gave to the tanks some crucial innovations like rear drive or the classic construction of majority of modern models.

Success of Renault FT

Renault FT-17 is said to be the most usefull tank made during the First World War. It had much lower weight than the other models (only 6,5 t) and was smaller. These features gave it developed manoeuvrability. Also, that's why constructrs had oppurtunity to focus on the armour. The tank susceptibility for being distroyed by bullet became minimal. The most considerable trait of FT-17 was having a full 360° rotation turret, used in a tank for a first time.









Unfortunately all that innovations made the tank very heavy. Only 10 of them were produced. This situation shown, that the huge size of the tank isn't considerable trait. Even with all that disadvantages, Char 2C became the most powerful machine of 1920's. It's armament and speed were important for the future of tanks' industry.

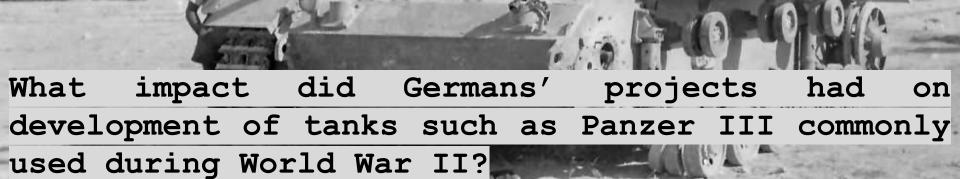




Renault FT

Char C2







The Germans started to design and build their tanks as to follow appearance of early British tanks on the Western Front.

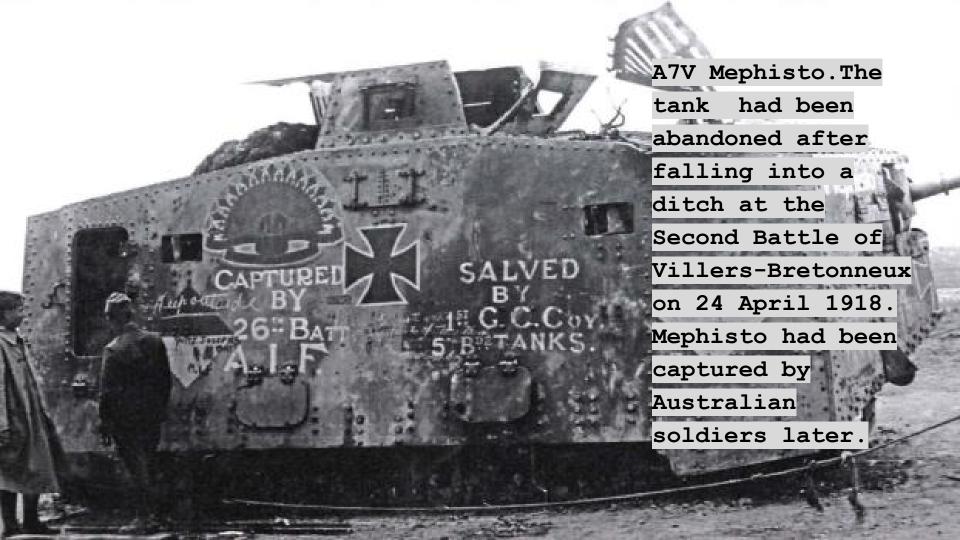
The project to design and build the first German tank was given in hands of Joseph Vollmer, who was these times' leading automobile facturer in the country. Soon, because in 1916, Sturmpanzerwagen A7V was introduced.

Sturmpanzerwagen A7V specifications

The A7V was 7,34 metres long and 3 metres wide, with height of around 3,3 m. Tank was 33 t of battle weight. A7V normally consisted of up to 17 soldiers and one officer.

A7V was armed with 40 to 60 cartridge belts, each of 250 rounds and 180 shells for the main gun ('male gun').

Armor: front - 30 mm, rear & sides - 15 mm, top - 6 mm.



A7V overall efficiency

Despite the fact that Sturmpanzerwagen's project seemed to be innovative, it came out not adapted to battlefield conditions.

The whole construction was too heavy, making the tank impractical on uneven terrain. Short tracks caused A7V to be relatively unsafe and uncontrollable. The biggest advantage of A7V was armor which outstanded even British designs.

A7V turned out to be a decent first try in constructing German tanks. Not enough time and funds to develop A7V further were caused by losing the war.

How project of A7V changed future German tanks?

A7V opened the way for future tanks development. Next designers knew what to upgrade, because of Sturmpanzerwagen's weak sides such as big weight and construction hard to control new projects were aimed to be smaller, faster and have more fire power. such prototype was Leichttraktor, which showed the general pattern of the way in which tanks development would go.

Next years were full of constant work over new projects. Following the construction of Leichttraktor, it can be said that Panzer I (produced in 1930s) was 'perfect offspring' of A7V as it was the Panzer I's contribution to the early victories of Nazi Germany during World War II was significant.





A7V



Leichttraktor

Pz I Ausf A





What impact did the British tanks had on the history of wars?



Britain was the first country, that actually used tanks. The truth is that British used word tank on purpuse to mislead their opponents.

The first tank was the Mark I which was used for the first time in 1916. Its task was to help infantry in the battle of Somme

Mark I specifications

Mark I was 7,93 meters or 9,90 meters if it was equipped with a steering wheel. It was 4,13 meters wide and 2,45 meters high. It was lightweight as it was weighed at 26 tons, which made it quite light for a tank. It could accommodate up 7 soldiers.

Mark I had two versions which we can distinguish through their armament. In the first version (female) Mark I had five machine guns, second type Mark I had two cannons and three machine guns

Armor: From 6mm to 15 mm.

Mark I overall efficiency

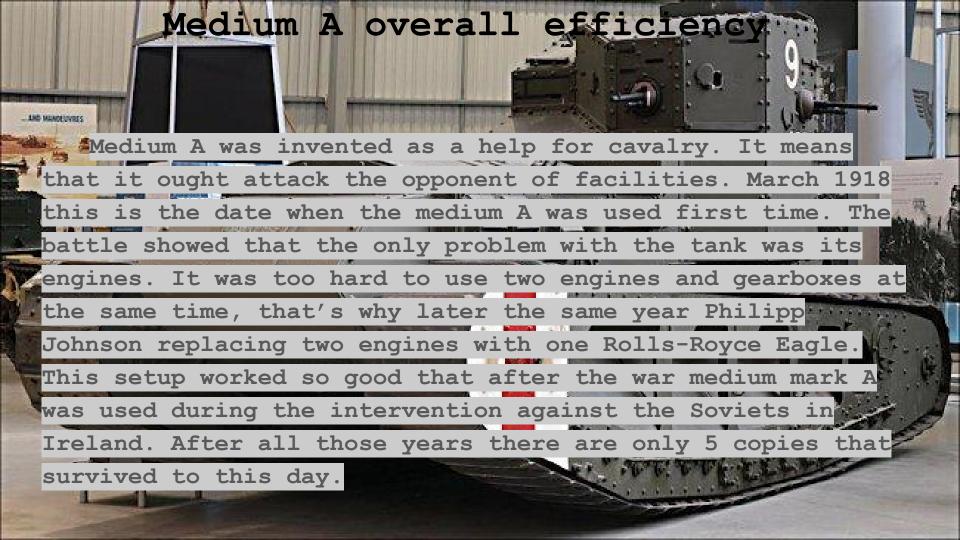
Mark I was the first tank ever made, that meant that it nearly had to be bad at least design side. And it of course was. In the first battle which was the battle of Somme, British send 49 tanks to help infantry. In the end only 32 were actually used and in fact 5 of them were stuck in the mud and another 9 broke in the meantime. The rest 18 didn't, do anything important in the battle.

Medium A specifications

Mark A was 6,10 meters, 2,62 meters wide and 2,75 meters high. It was even lighter than its predecessor weighing at 14,3 tons. Inside there was so little place that the whole tank could took only around 4 soldiers.

It was armed with 4 machine guns Hotchkiss Mk. I LMG 7.7 mm caliber. It could took 5400 bullets for those machine guns.

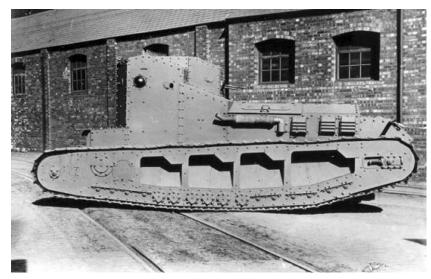
Armor: From 6mm to 15mm.



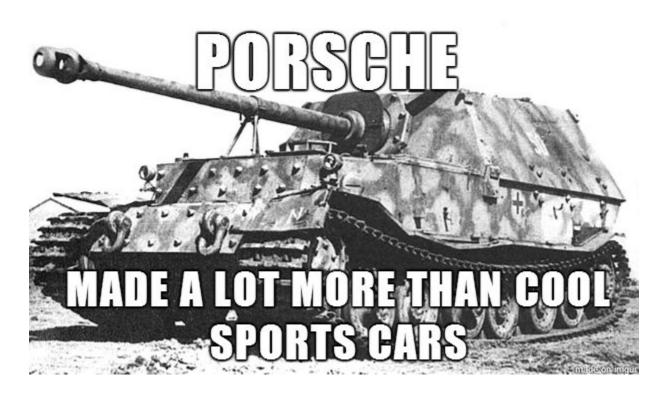


Medium Mark A

Mark I



T(h) ank you for attention!



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