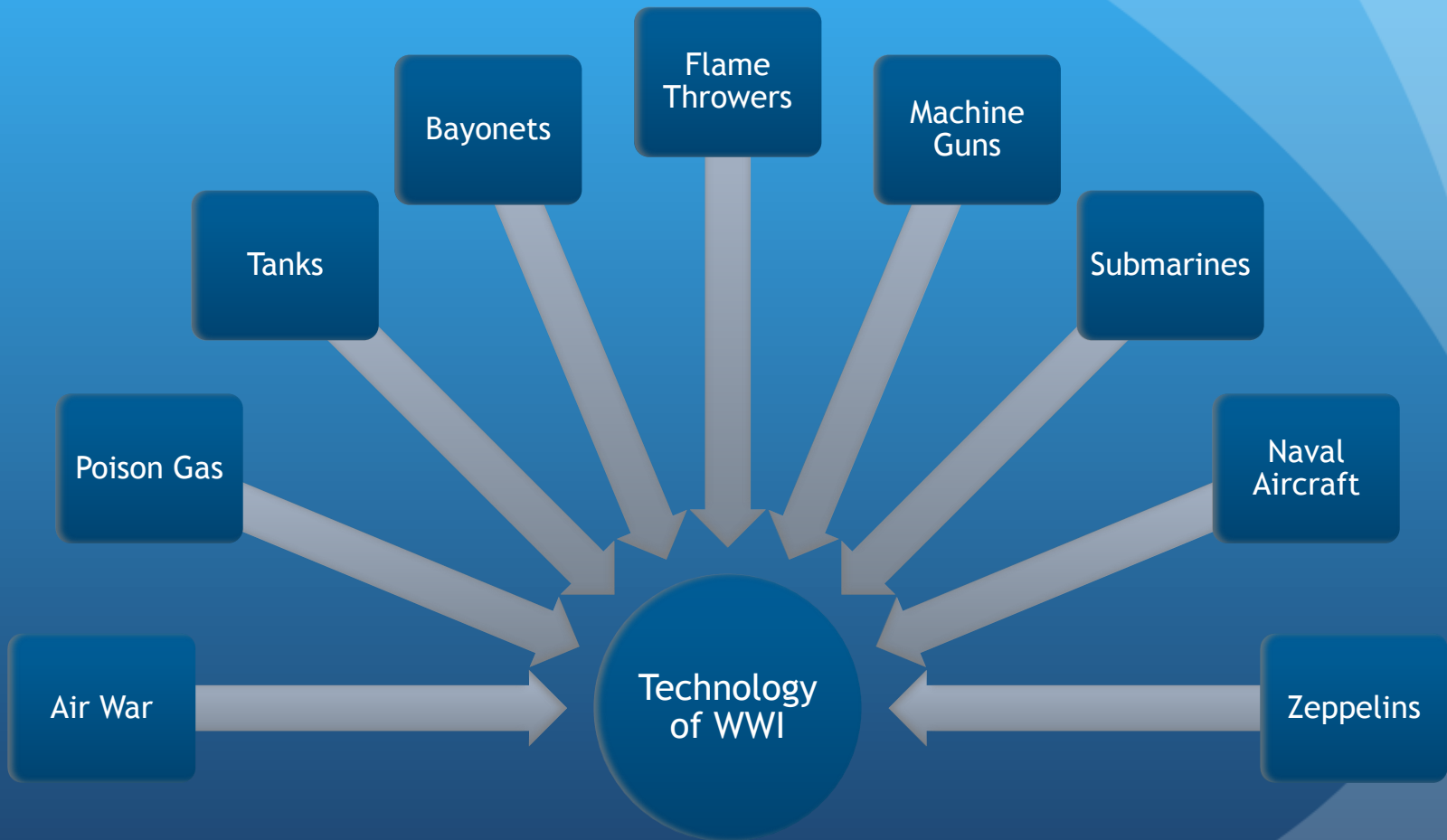




# World War I Warfare Technology



# Warfare Technology- Notes



# Where's Waldo in WWI



**NEW WEAPONS AND WARFARE**

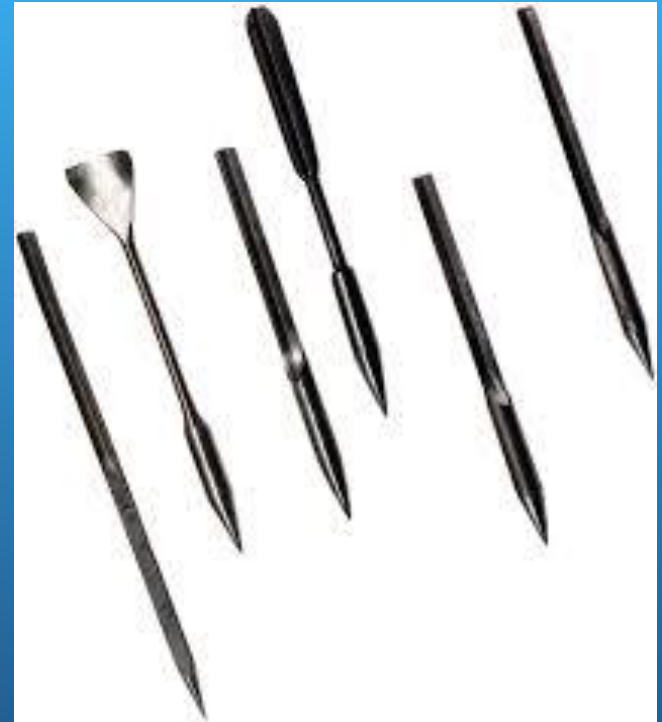
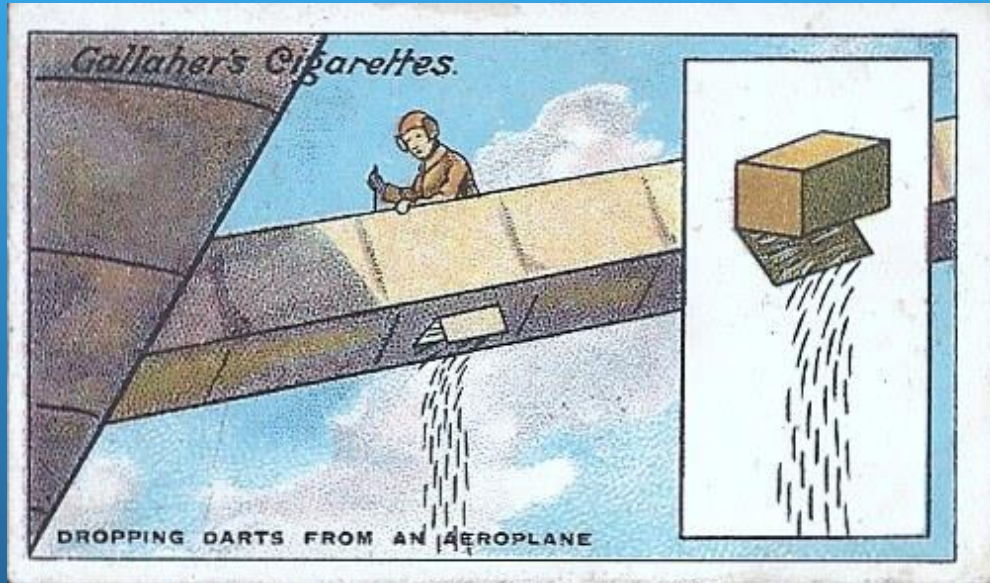
# Uses and Impact of Airplanes

- First used for RECONNAISSANCE
- Later used in air to surface and air to air combat
- Could attack targets behind enemy lines
- Would you go up in a plane that looked like this?

Was this technology successful?



# WWI air darts dropped from bi-planes



Lethal 5 inch air darts were dropped from British planes in batches of 500. 31 years after they were dropped the US dropped the first atomic bomb onto Japan.

# THE ZEPPLIN: BLIMPS



- By 1917 they could stay in the air for more than 95 hours at a time.

- PICTURES** were taken of troop positions from blimps during various battles

- Extremely **VULNERABLE** to attack (very slow).

Was this technology successful?

# Tanks

- The **BRITISH** guided the first D1 tank into action in 1916 against the Germans.
- Initial tank attacks were successful, but early tanks were **UNRELIABLE**.
- They often **BROKE** down and became ditched - i.e. stuck in a muddy trench - more often than anticipated.

Was this technology successful?



German Tank and US tank above

# Impact of Tanks

- Used to clear the way for infantry
- Had a profound **IMPACT** on the way battles were fought.

Real benefit will be seen in WWII.

Was this technology successful?

French Tank and British above





# Flame Throwers & Bayonets

- Flame Throwers- Spread fire by launching burning fuel
- Bayonet- Simple Design, psychologically damaging
- Not taught how to use it properly
  - Aim for left or right breast, left or right groin, and throat
- Used for close fighting
  - Other uses: Toasting bread, opening cans



Was this technology successful?

# MUSTARD GAS

✓ MUSTARD GAS was created by the GERMANS in 1917.

✓ It was called mustard gas because of its SMELL, it was also the most effective chemical weapon of WWI because it penetrated anything, masks, clothes, it vaporized relatively easily depending on the weather conditions . It was also easy to deliver.



Mustard Gas Shells Exploding



Was this technology successful?

# Casualties from gas

<b>Country</b>	<b>Total Casualties</b>	<b>Death</b>
Austria-Hungary	100,000	3,000
British Empire	188,706	8,109
France	190,000	8,000
Germany	200,000	9,000
Italy	60,000	4,627
Russia	419,340	56,000
USA	72,807	1,462
Others	10,000	1,000



Was this technology successful?

# MACHINE GUN



- Fired some 400-600 small-caliber rpm

Fired 800-1200 by the (end of the war)

# U-BOAT



- The U-boats were first invented by Germany. On 5th September 1914, the underestimated U-boats were finally able to show their deadly potential and draw first blood.

Was this technology successful?

# THE TRENCH



# Life in the trenches



# TRENCH WARFARE SIMULATION

## TRENCH WARFARE SIMULATION

HOW DO YOU TAKE THE  
OTHER SIDE MOST  
EFFECTIVELY USING THE  
NEW WEAPONS OF WAR?





# Trench Foot



# THE END



# Where's Waldo in WWI



**NEW WEAPONS AND WARFARE**

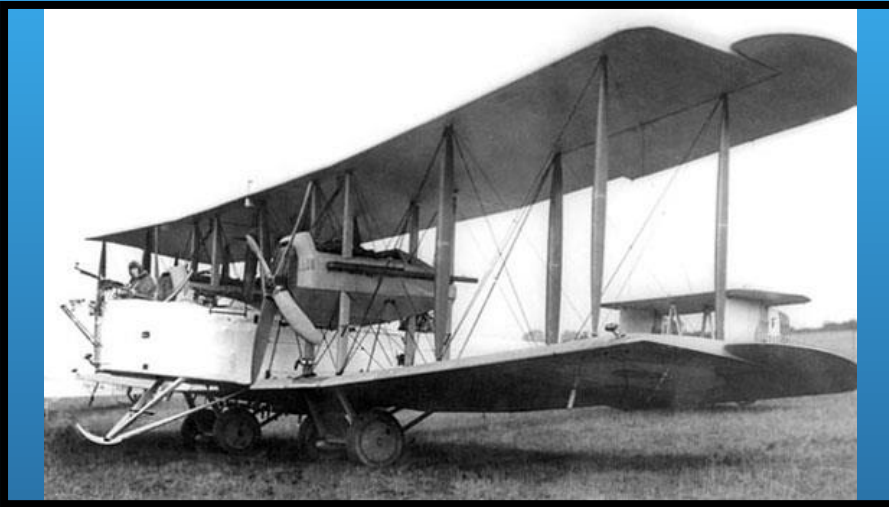
I added some extra slides

# Airplanes

- 1<sup>st</sup> War that used Airplanes
  - Training: Limited! A few hours
  - “Pusher”: Propeller faced backwards, pushed airplane forwards
  - “Tractor”: Propeller faced forwards, pulls plane forwards
  - Usage: Observation, Naval Warfare, strategic bombing, ground attacks



# Airplane Photos



Great Britain- 1918

Germany's Airplane 1915



# Machine Guns

- Took 4-6 men to operate, by 1918: one man operating
- Many problems existed with the machine gun
- Jammed within a few minutes, hot weather temps, overheat
- Eventually- became mobile, use for naval aircraft and tanks



# Zeppelins

- Cigar shaped balloon carrying gas balloons “airships”
- Multiple engines
- Fly in specific directions
- Preferred by Germany- cheaper

