1) Hello, my fellow workers. Today I am going to talk about nanomaterials

2) My talk will be in three parts and will take five minutes. Now let’s move to the first part which is .

3) **Warp drive** is a hypothetical [faster-than-light](http://en.wikipedia.org/wiki/Faster-than-light) (FTL) propulsion system in many works, most notably [*Star Trek*](http://en.wikipedia.org/wiki/Star_Trek). A spacecraft equipped with a warp drive may travel at apparent speeds greater than [that of light](http://en.wikipedia.org/wiki/Speed_of_light) by many orders of magnitude. In contrast to other hypothetical FTL technologies such as a [jump drive](http://en.wikipedia.org/wiki/Jump_drive) or [hyper drive](http://en.wikipedia.org/wiki/Hyper_drive), the warp drive does not permit instantaneous (or near instantaneous) travel between two points but involves a measurable passage of time. Spacecraft at warp velocity can continue to interact with objects in "normal space".

A primary component of the warp drive method of propulsion in the *Star Trek* universe is the "gravimetric field displacement manifold", more commonly referred to as a *warp core*. It is a fictional reactor that taps the energy released in a [matter](http://en.wikipedia.org/wiki/Matter)-[antimatter](http://en.wikipedia.org/wiki/Antimatter) annihilation to provide the energy necessary to power a starship's warp drive, allowing [faster-than-light](http://en.wikipedia.org/wiki/Faster-than-light) travel. Starship warp cores generally also serve as powerplants for other primary ship systems.

When matter and antimatter come into contact, they [*annihilate*](http://en.wikipedia.org/wiki/Annihilation) — both matter and antimatter are converted directly and entirely into enormous quantities of energy, in the form of [subnuclear particles and electromagnetic radiation](http://en.wikipedia.org/wiki/Annihilation#Proton-antiproton_annihilation) (specifically, [mesons](http://en.wikipedia.org/wiki/Mesons) and [gamma rays](http://en.wikipedia.org/wiki/Gamma_rays)). In the *Star Trek* universe, fictional "[dilithium crystals](http://en.wikipedia.org/wiki/Dilithium_(Star_Trek))" are used to regulate this reaction. These crystals are described as being non-reactive to anti-matter when bombarded with high levels of radiation. The reaction chamber is surrounded by powerful magnetic fields to contain the anti-matter. The mechanisms that provide a starship's propulsive force are the 'warp nacelles':  the nacelles generate the actual 'warp bubble' that surrounds the ship.

A theoretical solution for faster-than-light travel which models the warp drive concept, called the [Alcubierre drive](http://en.wikipedia.org/wiki/Alcubierre_drive), was formulated by physicist [Miguel Alcubierre](http://en.wikipedia.org/wiki/Miguel_Alcubierre) in 1994. However, it has recently been found that by changing the shape of the warp drive, much less negative mass and energy could be used, though the energy required is still many orders of magnitude greater than anything currently possible by modern technology. [NASA](http://en.wikipedia.org/wiki/NASA) engineers have begun preliminary research into such technology.

7) To sum up, Ever since the sound barrier was broken, people have turned their attention to how we can break the light speed barrier.  But “Warp Drive” or any other term for faster-than-light travel still remains at the level of speculation and for the near future, warp drive remains a dream.

8) That is all, thank you for your attention!