



SRI Congress 4

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Potential Contribution of Space Tourism to the Development of Orbital and Lunar Civilisation

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1 We are **NOT YET** living in the ‘**Space Age**’.

Commercial space activities are growing rapidly, but they are still almost only data services: telecommunications, surveillance . . .

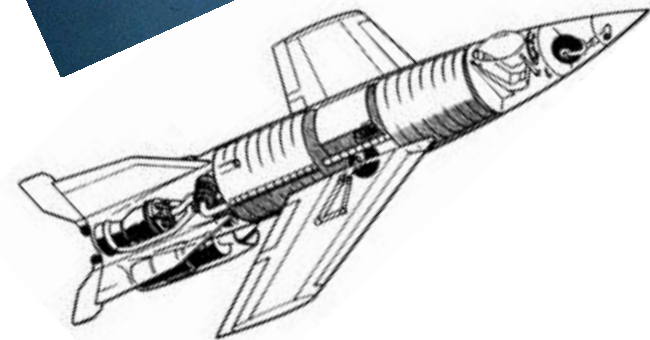
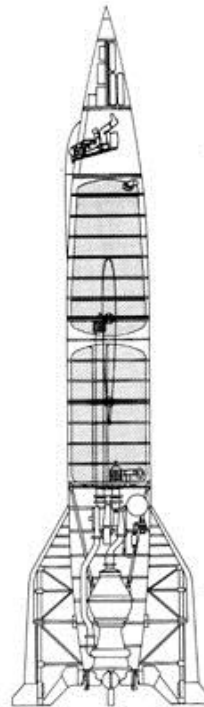
Human space flight activities to date remain very limited.



1.1 The space tourism industry is very different from 'the space industry'

Carrying millions of paying passengers every day, of all ages and states of health, is very different from space agencies' work.

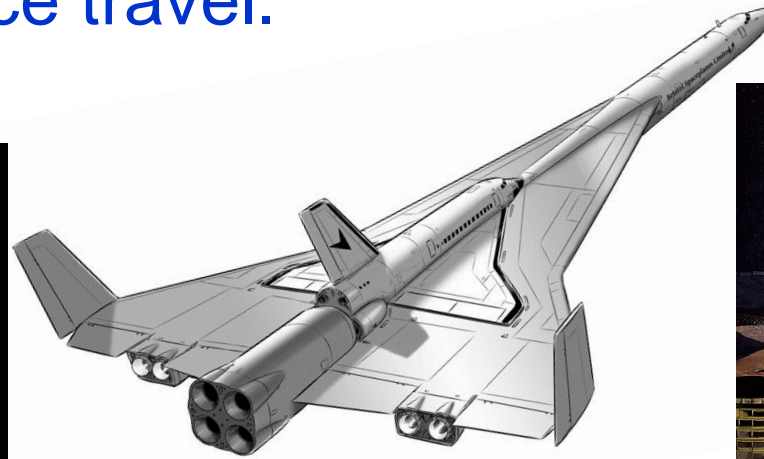
The US government made the FAA, not NASA, responsible for safety regulation.



1.2 Space tourism could have started more than 50 years ago.



1.3 Space tourism will grow through 3 phases: Sub-orbital flights, visits to orbital hotels, and lunar surface travel.





2 Arms race, diplomacy, space tourism and world peace

Public Choice Economics warns that 'democratic' governments are distorted by vested interests.

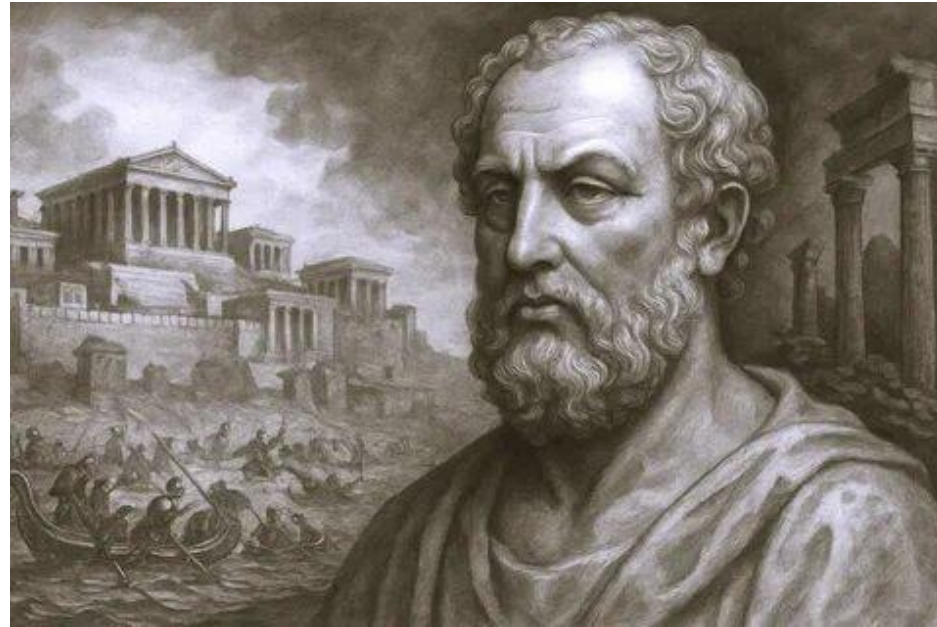
e.g. US annual military budget to **> \$1 Trillion !**

(US federal government's dangerous **\$40 Trillion** debt is more-or-less the sum of 80 years of huge military budgets.)



Top 15 defence budgets 2016[†] US\$bn





In Beijing, President Xi even openly urged President Trump to avoid ‘Thucydides Trap’, as China’s economy grows larger than the USA.



The growth of 'BRICS' is a result of the USA sliding into this trap that destroys empires.



Arms control treaties are **much more cost-effective** – and safer – than endless arms races.

BUT if the US War budget is cut by even 1/3, it will cause **recession** . . . unless new \$500 Billion/year industries are created.

New aerospace-related projects will be most effective . . . and consequently . . .



Space Tourism has unique potential to wean aerospace companies off military funding.

N.B. the “**Big 6**” passenger transportation industries – **horse-carriages, sailing-ships, railways, propeller-driven ships, cars and aircraft** – each spread worldwide, creating **hundreds of millions** of good jobs.

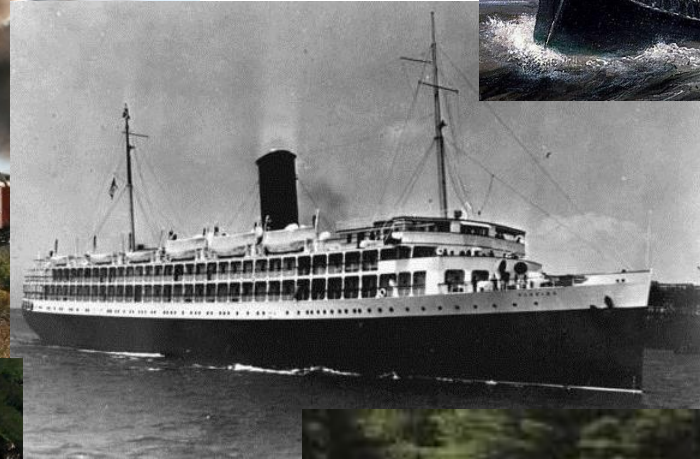


馬車

帆船



汽車



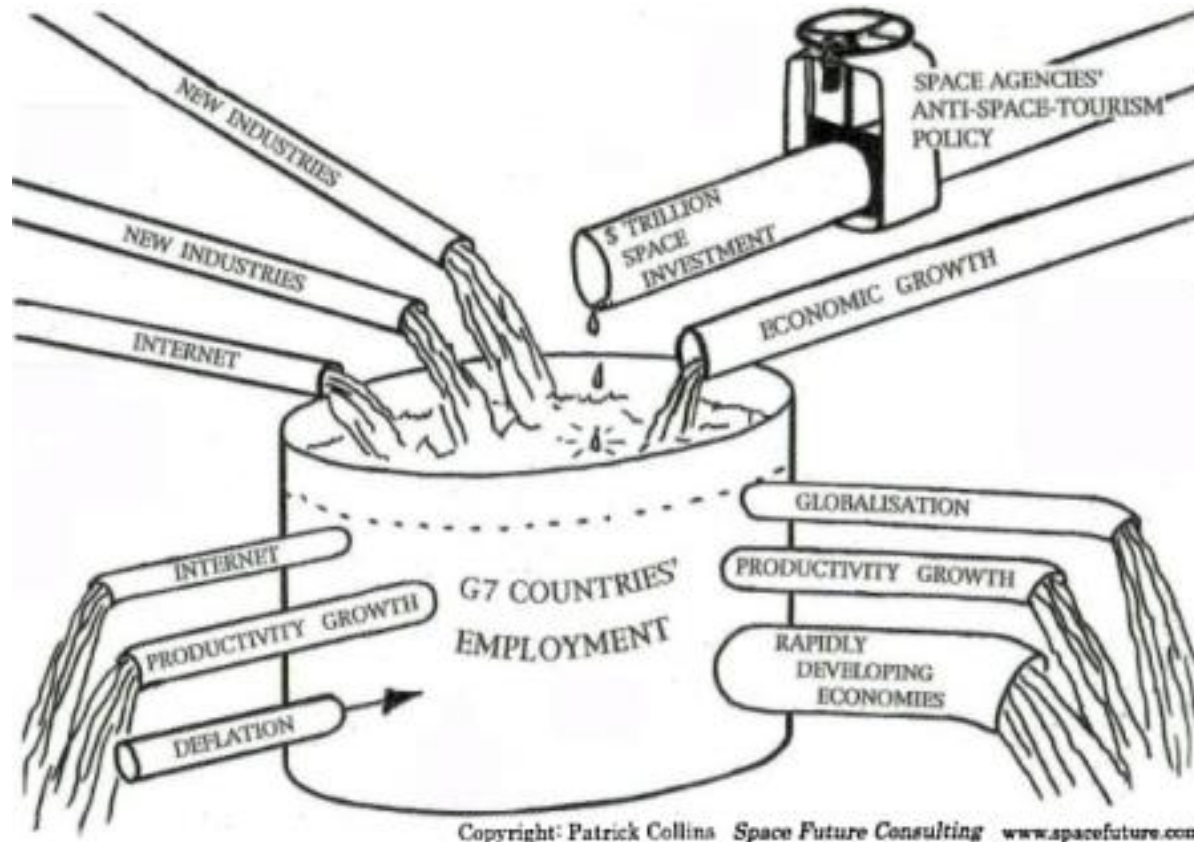
汽船

車

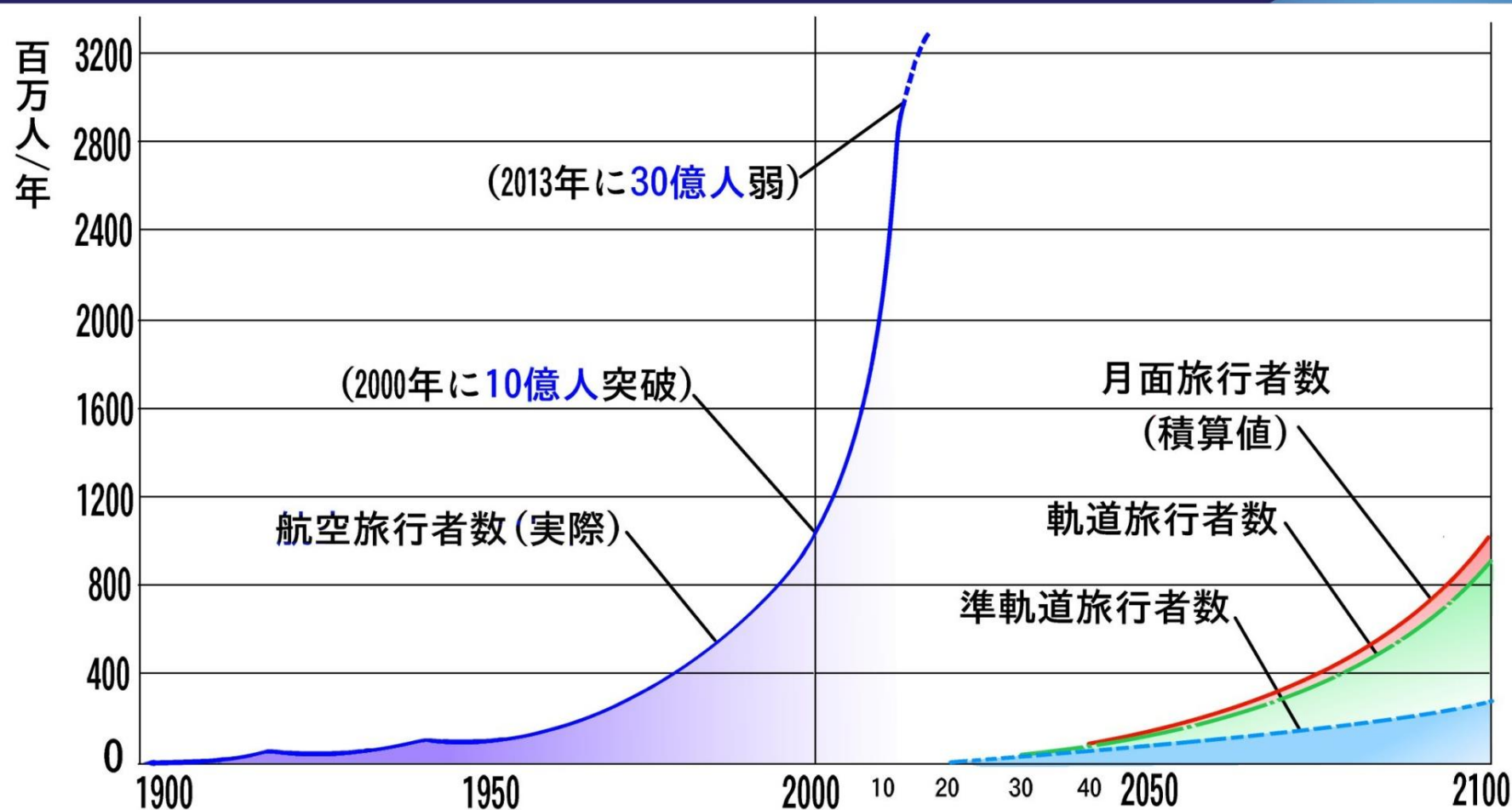


飛行機





Rocket propulsion is the **7th** world-changing transportation technology . . . but it has barely started to be used for passenger travel yet !



21st Century space travel could surely emulate 20th Century air travel: millions of passengers / day.



21st Century Educational Spaceflight Project

If AIs eliminate hundreds of millions of jobs, there will be an urgent need for HUGE new demand in the world economy.

E.G. the aerospace industry should plan to provide **space flights for ALL children in the world** – over all 3 phases – through the 21st century.



This will be **extremely educational**, and will enthuse young generations with a vision of a bright future – instead of the dystopian future vision of “**Resource Wars**”.

This is the vision needed to realise a worldwide **Space Renaissance**.