

# Chance Tb Data Project Part 2

## Deep Space 2

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Deep Space 2 was a NASA space probe, part of the New Millennium Program. It included two highly advanced miniature space probes that were sent to Mars aboard the Mars Polar Lander in January 1999. The probes were named "Scott" and "Amundsen", in honor of Robert Falcon Scott and Roald Amundsen, the first explorers to reach the Earth's South Pole. Intended to be the first spacecraft to penetrate below the surface of another planet, after entering the Mars atmosphere DS2 was to detach from the Mars Polar Lander mother ship and plummet to the surface using only an aeroshell impactor, with no parachute. The mission was declared a failure on March 13, 2000, after all attempts to reestablish communications following the descent went unanswered.

The Deep Space 2 development costs were US\$28 million...

## Management of tuberculosis

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Management of tuberculosis refers to techniques and procedures utilized for treating tuberculosis (TB), or simply a treatment plan for TB.

The medical standard for active TB is a short course treatment involving a combination of isoniazid, rifampicin (also known as Rifampin), pyrazinamide, and ethambutol for the first two months. During this initial period, Isoniazid is taken alongside pyridoxal phosphate to obviate peripheral neuropathy. Isoniazid is then taken concurrently with rifampicin for the remaining four months of treatment (6-8 months for miliary tuberculosis). A patient is expected to be free from all living TB bacteria after six months of therapy in Pulmonary TB or 8-10 months in Miliary TB.

Latent tuberculosis or latent tuberculosis infection (LTBI) is treated with three to nine...

## Badger culling in the United Kingdom

*in the hope of controlling the spread of bovine tuberculosis (bTB). Humans can catch bTB, but public health control measures, including milk pasteurisation*

Badger culling in the United Kingdom is permitted under licence, within a set area and timescale, as a way to reduce badger numbers in the hope of controlling the spread of bovine tuberculosis (bTB). Humans can catch bTB, but public health control measures, including milk pasteurisation and the BCG vaccine, mean it is not a significant risk to human health. The disease affects cattle and other farm animals, some species of wildlife including badgers and deer, and some domestic pets such as cats. Geographically, bTB has spread from isolated pockets in the late 1980s to cover large areas of the west and south-west of England and Wales in the 2010s. Some people believe this correlates with the lack of badger control.

A targeted cull in Pembrokeshire in Wales began in 2009, and was cancelled in...

## Fairey Delta 2

*believing that a piloted aircraft would be mandatory if the project was to produce any worthwhile data. Fairey commenced work on a highly swept twin-engine aircraft;*

The Fairey Delta 2 or FD2 (internal designation Type V within Fairey) is a British supersonic research aircraft that was produced by the Fairey Aviation Company in response to a specification from the Ministry of Supply for a specialised aircraft for conducting investigations into flight and control at transonic and supersonic speeds. Features included a delta wing and a drooped nose. On 6 October 1954, the Delta 2 made its maiden flight, flown by Fairey test pilot Peter Twiss; two aircraft would be produced. The Delta 2 was the final aircraft to be produced by Fairey as an independent manufacturer.

The Fairey Delta 2 was the first jet aircraft to exceed 1,000 miles per hour (1,600 km/h) in level flight. On 10 March 1956, it set a new world speed record of 1,132 mph (1,822 km/h), exceeding...

## World Community Grid

*five active projects and 26 completed projects. Several of these projects have published peer-reviewed papers based on the analysis of the data generated*

World Community Grid (WCG) is an effort to create the world's largest volunteer computing platform to perform scientific research that benefits humanity. Launched on November 16, 2004, with proprietary Grid MP client from United Devices and adding support for Berkeley Open Infrastructure for Network Computing (BOINC) in 2005, World Community Grid eventually discontinued the Grid MP client and consolidated on the BOINC platform in 2008. In September 2021, it was announced that IBM transferred ownership to the Krembil Research Institute of University Health Network in Toronto, Ontario.

World Community Grid uses unused processing power of consumer devices (PCs, Laptops, Android Smartphones, etc.) to analyse data created by the research groups that participate in the grid. WCG projects have analysed...

## Supervasi

*orthopedics, chest medicine and TB, ENT and gynecology. Compared to conventional mechanical ventilators that cost around 2.5 Million Indian Rupees (upwards*

Supervasi is a non-profit organisation and movement based in Maharashtra, India, formed for the purpose of using technology to improve e-governance, business and society.

Supervasi is run by members from various fields. Volunteers come from various parts of India and Europe, and work on a non-salaried basis. It has developed low-cost medical devices such as the Snakeathon Ambulance and Super Ventilator. It provides job opportunities and apprenticeship programs for the underprivileged indigenous tribals (Adivasis) and hearing disabled. It also provides various educational, medical and legal services to the tribals of Yeoor, Maharashtra.

Supervasi's funding comes from information technology projects undertaken by the organization, which funds their social projects. Their services include development...

## ZFS

*instance, fully populating a single zpool with 2128 bits of data would require  $3 \times 10^{24}$  TB hard disk drives. Some theoretical limits in ZFS are: 16 exbibytes*

ZFS (previously Zettabyte File System) is a file system with volume management capabilities. It began as part of the Sun Microsystems Solaris operating system in 2001. Large parts of Solaris, including ZFS, were published under an open source license as OpenSolaris for around 5 years from 2005 before being placed

under a closed source license when Oracle Corporation acquired Sun in 2009–2010. During 2005 to 2010, the open source version of ZFS was ported to Linux, Mac OS X (continued as MacZFS) and FreeBSD. In 2010, the illumos project forked a recent version of OpenSolaris, including ZFS, to continue its development as an open source project. In 2013, OpenZFS was founded to coordinate the development of open source ZFS. OpenZFS maintains and manages the core ZFS code, while organizations...

## Petlyakov Pe-2

*ANT-42 four-engined long-range bomber (which eventually entered service as the TB-7/Pe-8). However, that same year Stalin's Great Purge started, and none were*

The Petlyakov Pe-2 (Russian: ??????? ?-2 — nickname «????» (Pawn); NATO reporting name: Buck) was a Soviet twin-engine dive bomber used during World War II. One of the outstanding tactical attack aircraft of the war, it also proved successful as a heavy fighter, as a night fighter (Pe-3 variant) and as a reconnaissance aircraft. The Pe-2 was, numerically, the most important Soviet bomber of World War II, at their peak comprising 75% of the Soviet twin-engine bomber force. The Soviets manufactured Pe-2s in greater numbers (11,430 built) during the war than any other twin-engine combat aircraft except for the German Junkers Ju 88 and the British Vickers Wellington. Several Soviet bloc air forces flew the type after the war, when it became known by the NATO reporting name Buck.

## Health in Pakistan

*Sustainable Development Goals and chance to achieve them by 2030. According to latest statistics, Pakistan spends 2.95% of its GDP on health (2020). Pakistan*

Pakistan is the fifth most populous country in the world with population approaching 225 million. It is a developing country struggling in many domains due to which the health system has suffered a lot. As a result of that, Pakistan is ranked 122nd out of 190 countries in the World Health Organization performance report.

Life expectancy in Pakistan increased from 61.1 years in 1990 to 65.9 in 2019 and is currently 67.94 in 2024 . Pakistan ranked 124th among 195 countries in terms of Healthcare Access and Quality index, according to a Lancet study. Although Pakistan has seen improvement in healthcare access and quality since 1990, with its HAQ index increasing from 26.8 in 1990 to 37.6 in 2016. It still stands at 164th out of 188 countries in terms of United Nations Sustainable Development...

## Gaia (spacecraft)

*60 TB, amounting to about 200 TB of usable uncompressed data on the ground, stored in an InterSystems Caché database. The responsibility of the data processing*

Gaia was a space observatory of the European Space Agency (ESA) that was launched in 2013 and operated until March 2025. The spacecraft was designed for astrometry: measuring the positions, distances and motions of stars with unprecedented precision, and the positions of exoplanets by measuring attributes about the stars they orbit such as their apparent magnitude and color. As of May 2025, the mission data processing continues, aiming to construct the largest and most precise 3D space catalog ever made, totalling approximately 1 billion astronomical objects, mainly stars, but also planets, comets, asteroids and quasars, among others.

To study the precise position and motion of its target objects, the spacecraft monitored each of them about 70 times over the five years of the nominal mission...

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