



FABRICAÇÃO DIGITAL



INSTITUTO
NACIONAL DE
TECNOLOGIA
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO



SEBRAE

PETRÓLEO

Desenvolvimento de Produtos e Protótipos para o setor de Petróleo e Gás

Participação:



PETROBRAS

Apoio:



anp
Agência Nacional
do Petróleo,
Gás Natural e Biocombustíveis

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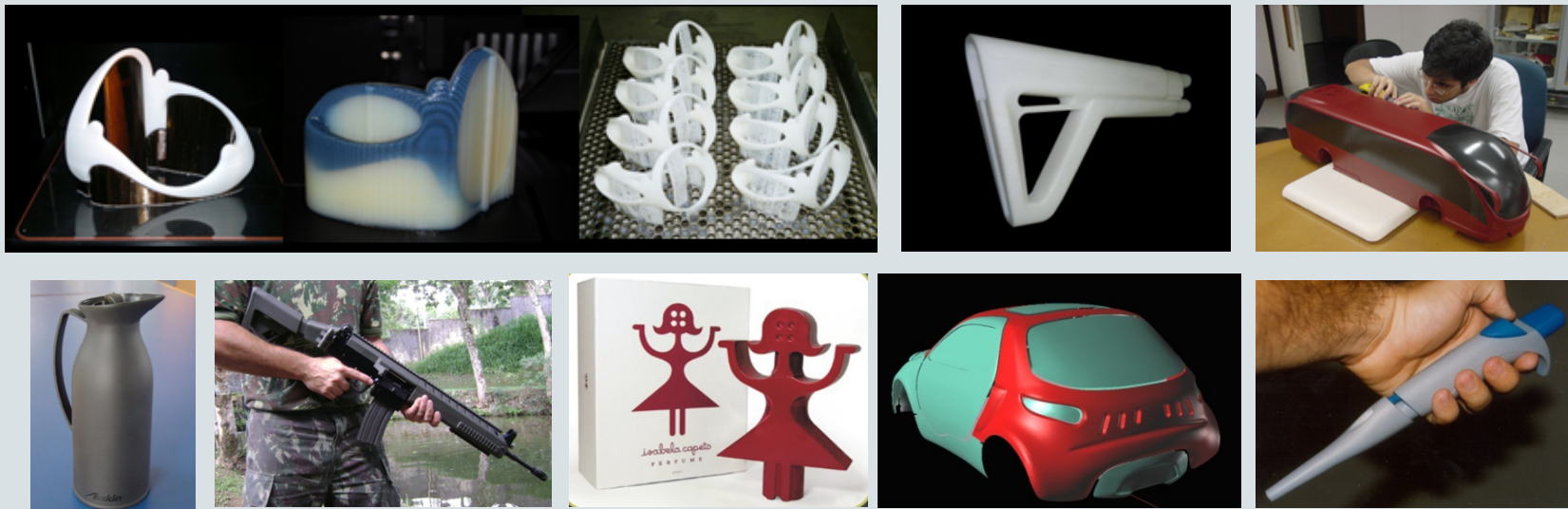
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HOW IT WORKS

HOW IT WORKS; If You Behave Yourself, I'll Print You a Toy

By PETER WAYNER
Published: May 29, 2003

VIEWED through the fantastic lens of science fiction, three-dimensional printers seem as amazing as the transporters in "Star Trek." In goes a digital idea of a thing and out comes the thing itself.

In practice, three-dimensional printing is fairly mundane. Many such machines use a computer-controlled stream of light to bind a powdery material, layer by layer. A modern printer uses billions of tiny dots to arrange billions of tiny flecks of plastic or metal. The billions of bits end up in the right place every day.

The machines are very expensive, costing tens of thousands of dollars. They are used by industrial designers or engineers to create prototypes.

But some companies are considering the possibility that could eventually find its way into homes. You could e-mail a toy to her grandchild by sending a file to a printer that prepares for a day of fishing by printing out a model of a fishing boat.

Printing body parts Making a bit of me

A machine that prints organs is coming to market. Feb. 18th 2010

THE great hope of transplant surgeons is that they will, one day, be able to order replacement body parts on demand. At the moment, a patient may wait months, sometimes years, for an organ from a suitable donor. During that time his condition may worsen. He may even die. The ability to make organs as they are needed would not only relieve suffering but also save lives. And that possibility may be closer with the arrival of the first commercial 3D bio-printer for manufacturing human tissue and organs.

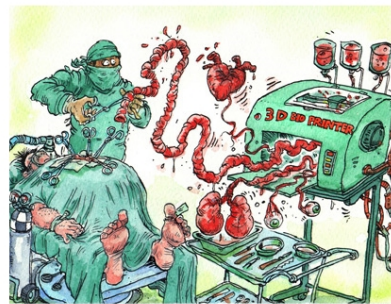


Illustration by David Simonds

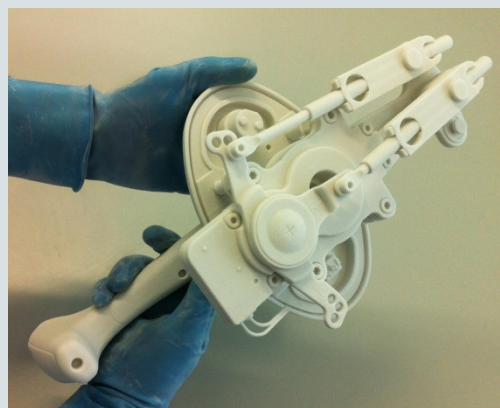
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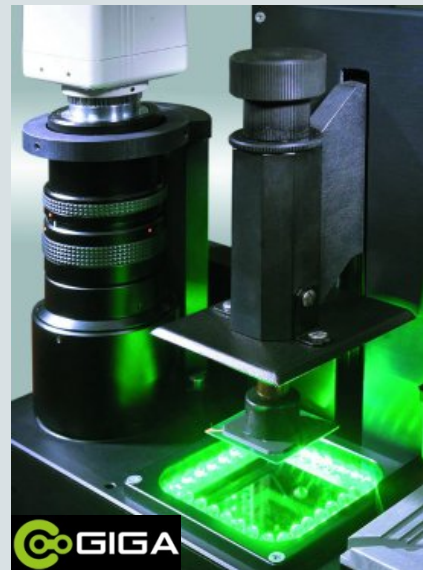
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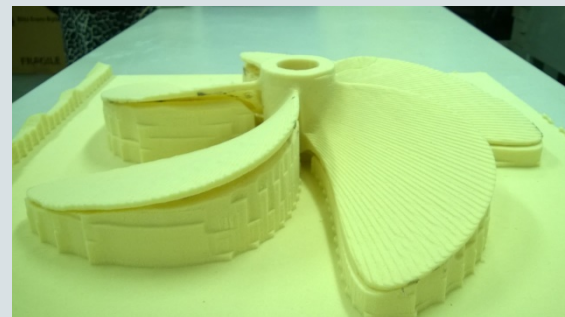
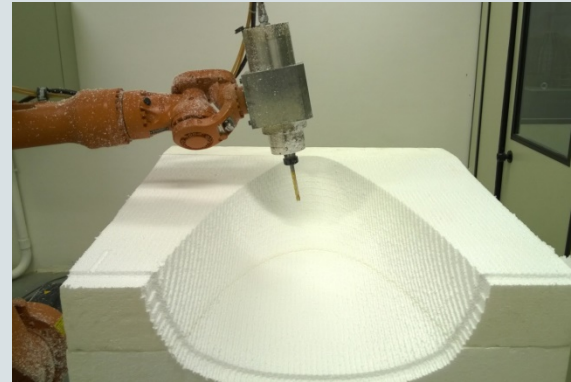
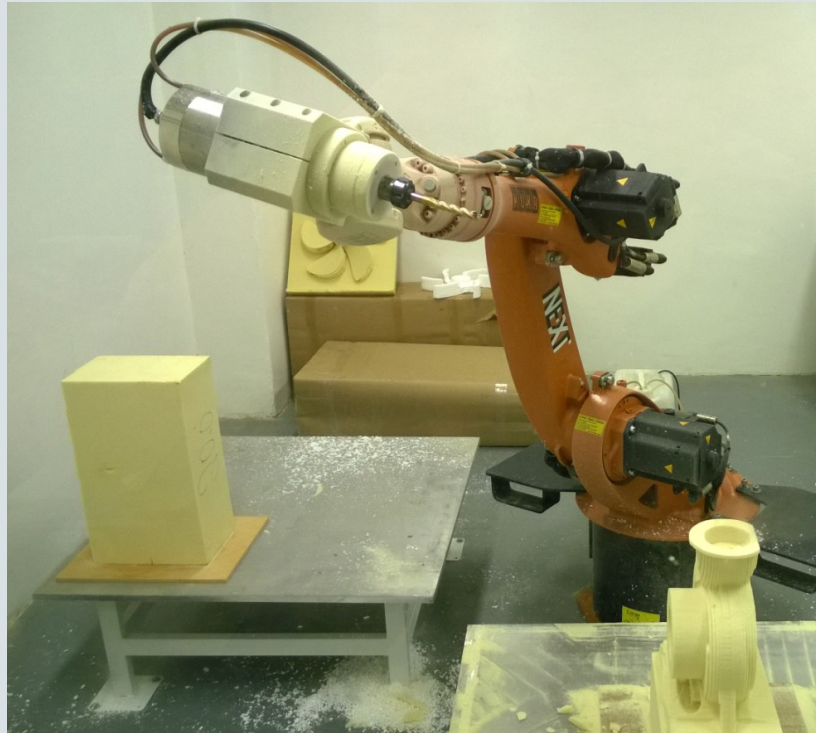


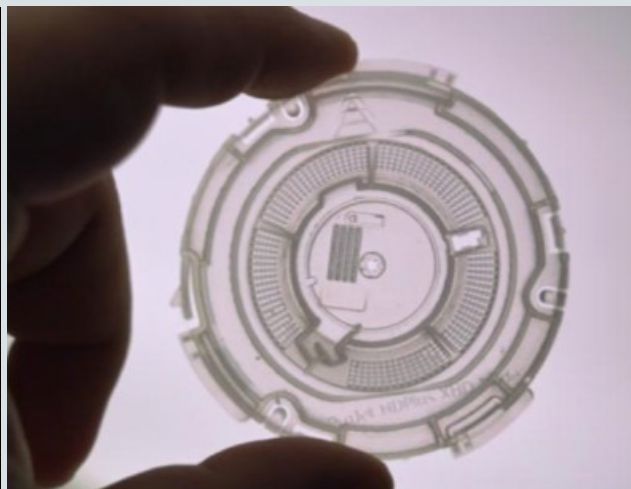
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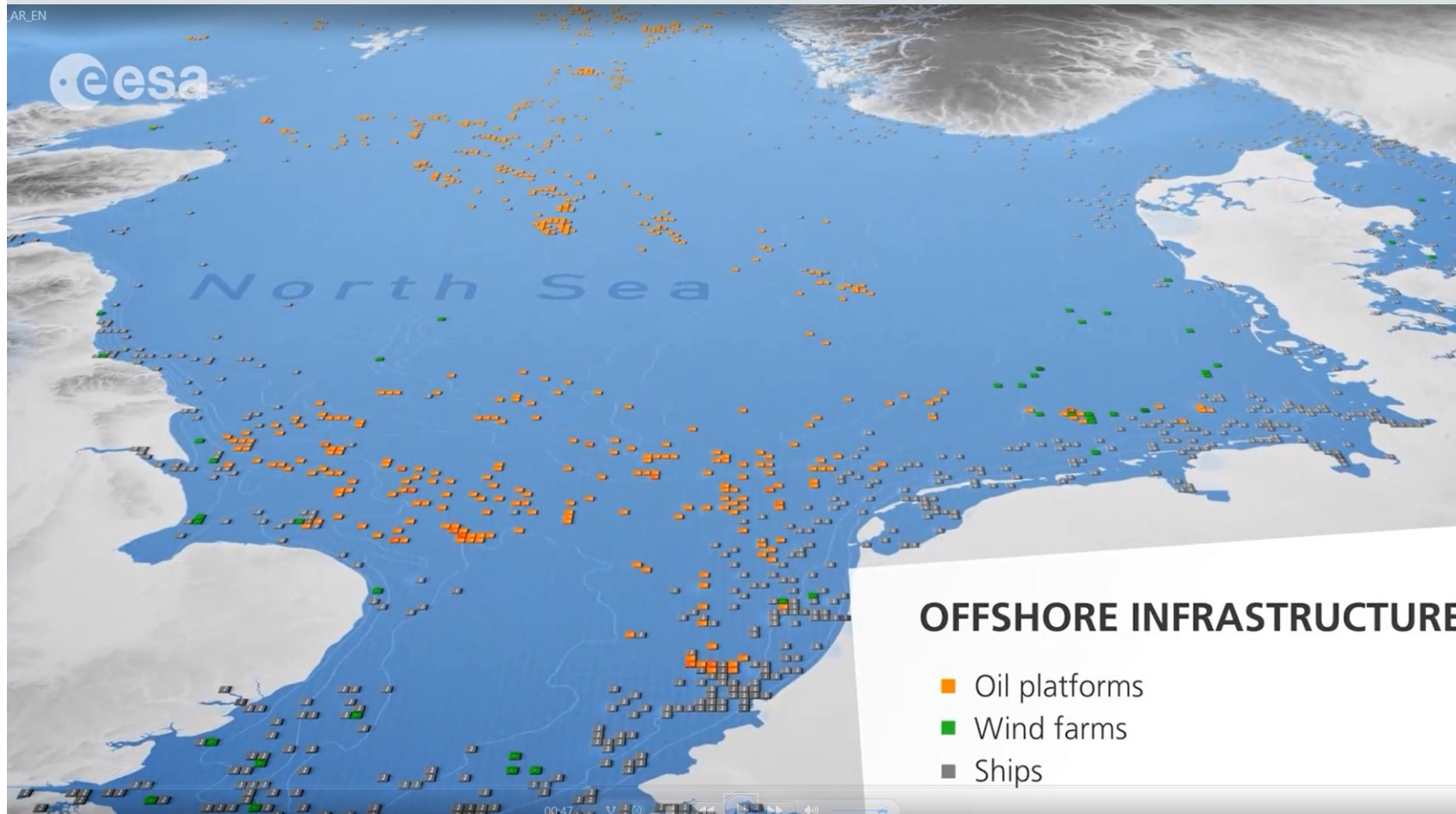


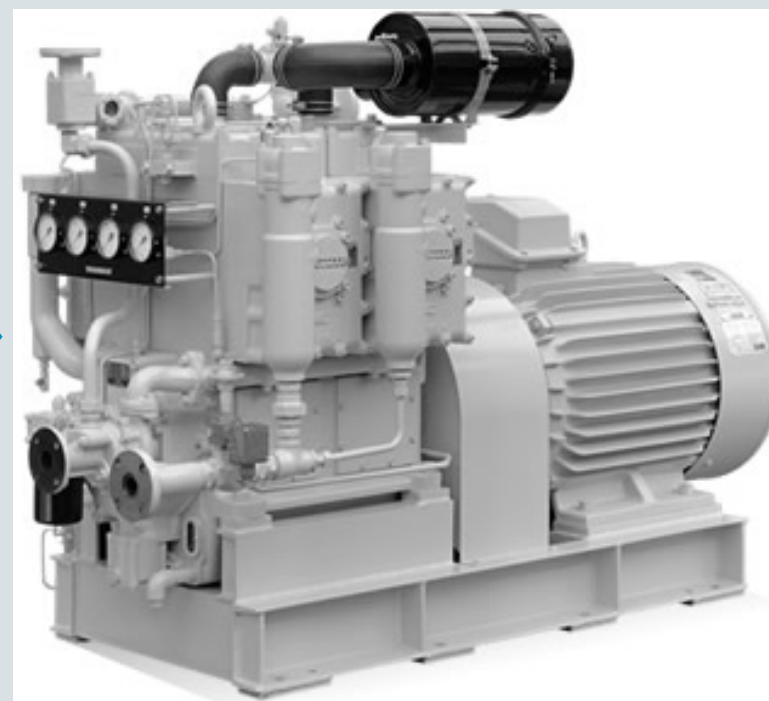












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Technology

Soon You Can Buy The World's First Commercial House 3D Printer for £9,800



By Mary-Ann Russon
May 30, 2014 18:53 BST

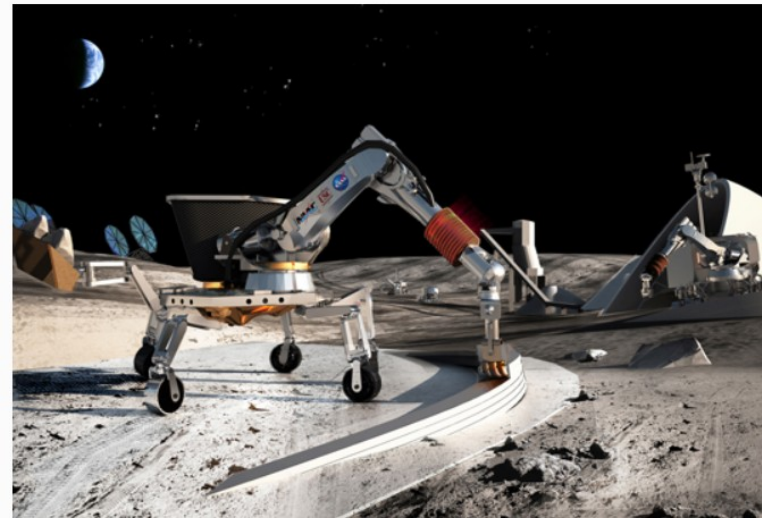
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BetAbram's house 3D printer BetAbram



USC Professor Receives NASA Grant to Develop 3D-Printed Space Homes

by Lidija Grozdanic, 11/17/13

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What

We wrote about Dr. Berokh Khoshnevis' revolutionary robot-builder that could **3D print entire houses**, and now the 'contour crafting' technology has caught the eye of NASA and multinational building firms. Khoshnevis, a professor at the University of Southern California, was given a grant by NASA to use the technology to work on designing **structures that can be built on the moon** and other planets that could one day be colonized by humans.





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World's First Liveable 3D-printed Houses Debut in China For \$5,000 US Dollars

Posted on May 20, 2014 by Admin in [Family](#), [Retirement](#), [Sustainability](#) // 0 Comments



3D House for less than \$5,000 U.S. Dollars







China shows off world largest 3D printed titanium fighter component

May.29, 2013

At the 16th China International High-tech Expo which took place during May 21-26, 2013 in Beijing, AVIC Laser, a subsidiary of **AVIC Heavy Machinery**, showed off the world's largest titanium aircraft critical component produced using 3D Laser Direct Manufacturing technology.



AVIC Laser displayed, for the first time, a large 3D printed titanium part for J-20 or J-31 stealth fighter. According to AVIC Laser, their 3D Laser Direct Manufacturing technology has been used in producing 7 kinds of aircraft, including Y-20 Strategic Airlifter, J-15 carrier-borne fighter, C919 airliner and next generation stealth fighters. **The J-15's chief designer confirmed** in March that printable components are being used "in major load-bearing parts, including the [J-15's] front landing gear."

AVIC Laser was established in 2000. Funded by Chinese government, especially the military, the team has solved several technical difficulties during the first seven years' research and development of the technology, such as "inert gas protection system", "defect control", "metal lattice growth control" etc. On Jan.18, 2013 AVIC Laser won the national technology invention award in Beijing.



The 3D Laser Direct Manufacturing technology could lower the cost of titanium parts to only 5 percent of the original. It costs about 25 million yuan (\$4m) to process one ton titanium alloy complex structural parts using traditional method, but with 3D Laser Direct Manufacturing it costs only 1.3 million (\$212k).

China's Huge 3D Printers, Soon Able to Print Automobile Sized Metal Objects

BY ALAN GARDNER · FEBRUARY 6, 2014

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One of the biggest possible economic impacts of 3D printing to the U.S. economy is the fact that it may eventually allow corporations to bring jobs back onshore from China. The United States outsources a large number of jobs over to Asia as a way to cut labor costs. 3D printing and robotics promises to change some of this, as companies can utilize industrial scale 3D printers and automation to manufacture parts for their products, cheaper than even the labor force in China can produce them. That's if, of course China lags behind in their adoption of these technologies.

It appears, however that China is investing heavily in 3D printing, just like those in the U.S. and Europe. Their corporate and government leaders clearly can identify an emerging technology and its possible economic impact on the future of China. In fact, back in June, China announced a [gigantic 3D printer](#), which they claimed was the world's largest at the time, with a 1.8 m build diameter. Basically the thing could print out a nice sized bathroom vanity if you wanted it to.

This isn't where it ends though. 1.8 meters is nothing compared to what China has done since, and plans to do within the next month or so. Southern Fan Co. (As Translated from Chinese), a company also located in China, put out a [press release](#) in November of last year, indicating their plans to develop what would turn out to be, by far the largest 3D printer yet. The printer, once complete, sometime this month, according to



past releases by the company, will be able to print out metal objects approximately 6 meters, or 18 feet in diameter. Yes, if the printer works as it's supposed to, the company will be able to print out the entire frame of just about any four wheeled automobile on Earth.

The implications for such a development would be huge for the company, but also for China, who in the last 12 months





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Detroit's decline is a distinctively capitalist failure

The auto industry Big Three were loyal only to shareholders, not the people of Detroit. The city was gutted by that social choice

**Richard Wolff**

theguardian.com, Tuesday 23 July 2013 13.30 BST

[Jump to comments \(703\)](#)

Downtown Detroit is now a shadow of its former self. Photograph: Rex Features

Modelando o futuro Shaping the future



Stegosaurus by hichung is licensed under the Creative Commons Share Alike license.
<http://www.fhengineering.com/hichung/designs>

AS TRÊS DIMENSÕES E O SABER HUMANO

Desde que a tecnologia digital 3D surgiu, um incrível leque de possibilidades de sua aplicação em diversas áreas do conhecimento foi aberto. Neste livro, poderemos conhecer alguns dos projetos mais significativos desenvolvidos no Brasil, fruto do trabalho de profissionais de áreas tão distintas como design, medicina, paleontologia, radiologia e arqueologia, entre outras.

Em cada capítulo somos convidados a fazer uma viagem no tempo e no espaço, visitando "virtualmente" a era dos dinossauros, aldeias pré-históricas, tumbas de faraós e outros locais e períodos fascinantes da História. Um conteúdo que foi o resultado de pesquisas conduzidas com o uso intensivo das tecnologias tridimensionais e em parceria com pesquisadores de diversas instituições espalhadas pelo Brasil e pelo mundo. Vale conhecer a documentação desta empreitada colaborativa, bem no espírito do nosso tempo, que busca entender melhor o passado e especular sobre as possibilidades do futuro, utilizando as tecnologias do presente.

THREE DIMENSIONS AND HUMAN KNOWLEDGE

Since 3D technology appeared, a bunch of its possible applications in various fields of knowledge was opened. This book presents some of the most significant projects developed in Brazil, derived from the work of professionals of very distinct areas, such as Design, Medicine, Paleontology, Radiology and Archeology, among others.

Each chapter invites us to travel in time and space, "virtually" visit the dinosaur era, pre-historical villages, pharaoh's tombs, and other fascinating periods and places back in History. The content is the outcome of researches developed with intensive use of 3D technologies and partnership with researchers and institutions in Brazil and abroad. It is worthwhile to get to know the papers derived from this collaborative tough assignment, well along with the spirit of our times, which try to better understand the past and speculate the possibilities of the future, using present technologies.

BETO LARGMAN
Jornalista especializado em tecnologia
Technology expert journalist



TECNOLOGIAS
TECHNOLOGIES
3D
Desvendando o passado, modelando o futuro
Unveiling the past, shaping the future



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Unveiling the past, shaping the future

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Obrigado!

