



4.0

REVOLUTION

BACKGROUND

Industrial revolution is the name given to a set of technological changes with an impact on society such as the development of capitalism or democracy.

First Industrial Revolution (1760-1840) THE ORIGIN .- When the economy stops being based on agriculture and crafts to depend on industry. Location: Great Britain extending to the rest of Europe.

Second Industrial Revolution (1850 - 1970) MECHANIZATION.- Technical innovations are essentially focused on new sources of energy such as gas, oil or electricity; new materials and new transportation systems (aircraft and automobile) and communication (telephone and radio) introduce chain transformations that affected the labor factor, the educational and scientific system.

Third Industrial Revolution (mid-twentieth century - 2006) THE INTERNET.- Although the beginnings of the Internet date back to 1969 (interconnection of computers), it is based on new technologies of information and communication already established, as well as innovations that allow the development of renewable energies.

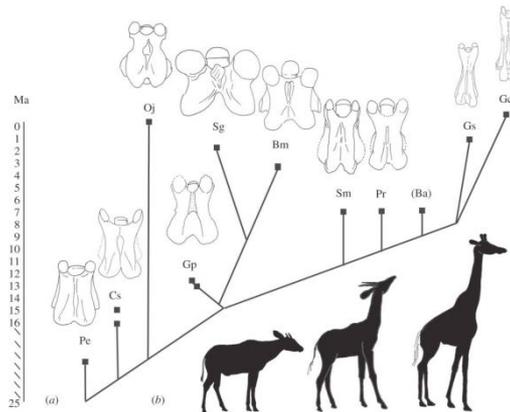
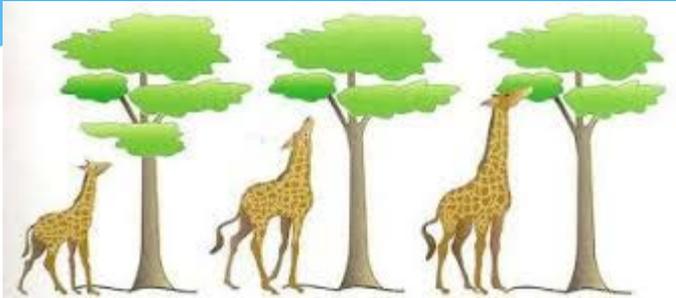
Fourth Industrial Revolution (beginning in 2011) AUTOMATION.- Focuses on cyber-physical systems, robotics, the internet of things and the connection between devices, creation of "smart industries". Robotize and mechanization of more and more tasks

REVOLUTION 4.0

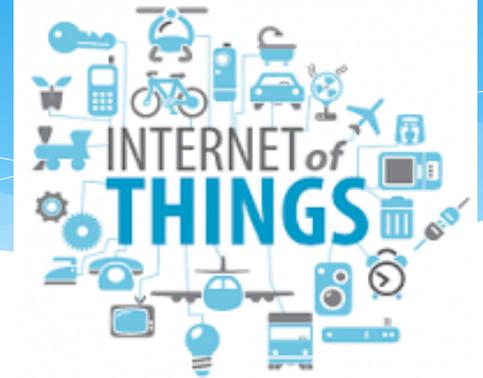
It is considered an evolution of the fourth revolution not being a set of emerging technologies in themselves, but the transition to new systems that are built on the infrastructure of the digital revolution, that is, the improvement of elements already used in the Fourth Revolution. According to Valeria Perasso BBC world reporter:

- * 1. Germany was the first country to establish it on the government's agenda as a "high-tech strategy"
- * 2. It is based on cyber physical systems, which combine physical infrastructure with software, sensors, nanotechnology, and digital communications
- * 3. Internet of things or objects will play a fundamental role
- * 4. It will allow to add US \$ 14.2 billion to the world economy in the following 15 years
- * 5. It will change the world of employment completely and will affect industries across the planet

TECHNOLOGICAL DARWINISM



INTERNET OF THINGS



It is known as the "Internet of Things" (IoT), a concept that was born at the Massachusetts Institute of Technology (MIT). It is a revolution in the relations between objects and people, even between objects directly, that will connect with each other and with the Network and offer real-time data.

Examples

- A refrigerator that sends an alarm of the expiration date of the food or send a text message once a certain product is already finished
- Tennis shoes that records "in the cloud" the statistics of how much you run each week and the speed
- Toilets that analyze urine and recommend the food diet that is best to apply
- Toothbrush that will warns you of any small cavities and schedule an appointment with your dentist

BIOTECHNOLOGY

The denomination "biotechnology" is the result of the merge between: "biology" and "technology".

According to the company "biopositivízate", biotechnology consists in the use of the biological machinery of other living beings in a way that results in a benefit for the human being, either because a valuable product is obtained or because an industrial procedure is improved. Through biotechnology, scientists seek to generate healthier foods, better medicines, more resistant or less polluting materials, more productive crops, renewable energy sources and even systems to eliminate pollution.

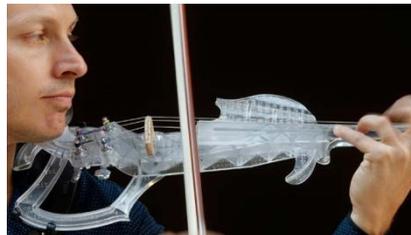
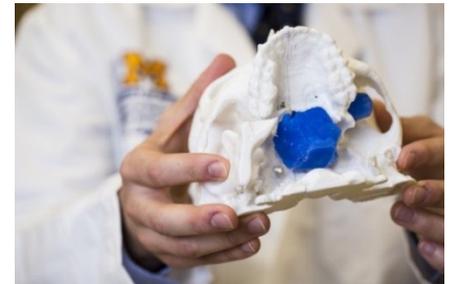
Biotechnology in health - creation of more effective vaccines, treatments of genetic diseases, stem cells, etc.

Biotechnology in food and agriculture - fermentation, yeast or transgenic foods.

Biotechnology in the environment - treated water or waste recycling. E.g. Microorganisms used for oil spills in the ocean.

3D PRINTERS

A 3D printer is a machine capable of making replicas of designs in three dimensions, from a design made by computer or downloaded directly from the Internet.



VIRTUAL ASSETS

Virtual currency or cryptocurrency is a digital representation of value that can be traded digitally and works as a means of exchange; and / or a unit of account; and / or a deposit of value, but has no legal treatment on any jurisdiction. No jurisdiction issues or guarantees virtual currencies, and fulfill with the aforementioned functions by common agreement of the community of its users.



BITCOIN

Bitcoin, was born 10 years ago, by its founder, Satoshi Nakamoto, who wrote a technological protocol called Blockchain. This technological protocol works on distributed networks where it creates blocks without information (general ledger entries) that pass through a transaction between several parties. This information can not be manipulated by any of the parties because everyone can access the information at the same time. The information can not be changed without the other knowing it.

It is not a physical entity or organization, it is a deregulated currency that wants to create a new world order in the financial system. It allows a point-to-point transaction, where there is no bank in the exchange of goods and digital currency. The system is not regulated by the central banks of the world, which for the last 200 years have decided the value of an exchange element linked to gold or the dollar based on the trade deficits of nations.

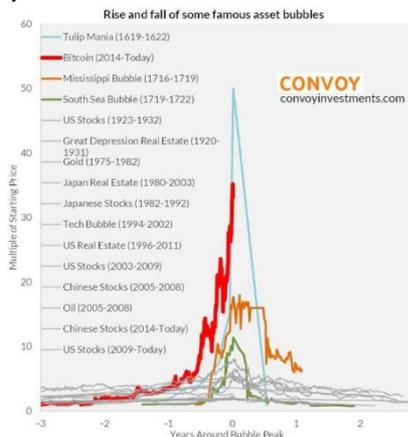
STANCES

IN FAVOUR – The virtual currency is the future of the payment systems

"There will be two types of businesses in the 21st century: those that are on the Internet and those that do not exist" Bill Gates.

"It's probably the most important development of the Internet in the last five years" Julian Assange (WikiLeaks)

"I think it's working, and maybe if more coins were like that, it would be better. But in the meantime, there is a big industry around this coin, and you know that people have made a fortune with Bitcoin." Richard Branson



¿INVEST?

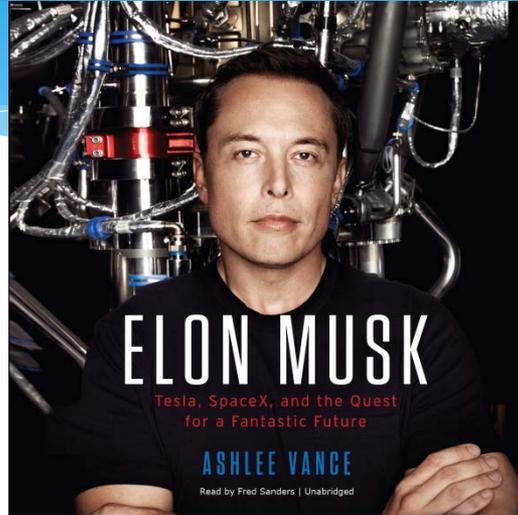
AGAINST - Virtual currencies provide a new and powerful tool for criminals, terrorist financiers and other tax evaders to move and store illicit funds, beyond the reach of law enforcement and other authorities

"It is a fraud and I will fire any of my employees that trade with such asset" Jamie Dimon (CEO JP Morgan)

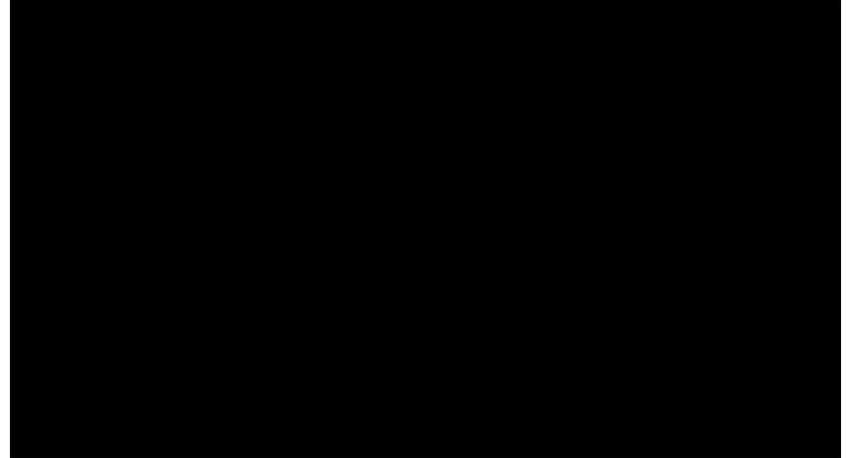
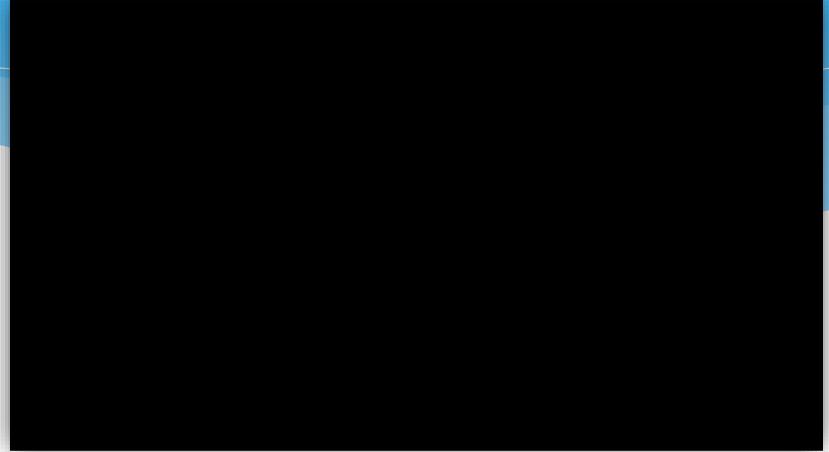
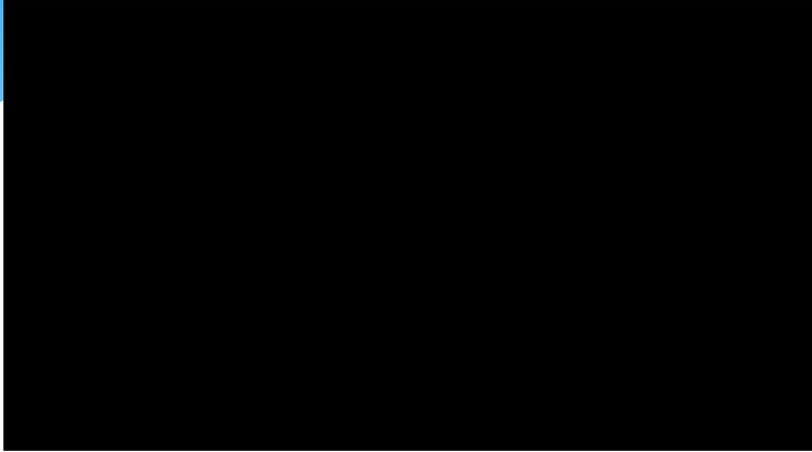
*The absence of central banks, or government support is a lack of guarantee that leaves the user helpless in case of fraud or theft
Its value is quite unstable.*



ELON MUSK



REVOLUTION 4.0 ON THE GO



AFRAID OF THE UNKNOWN

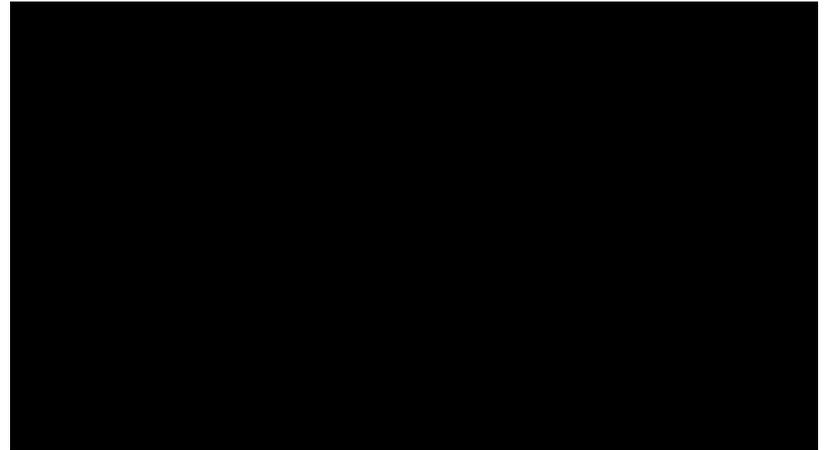
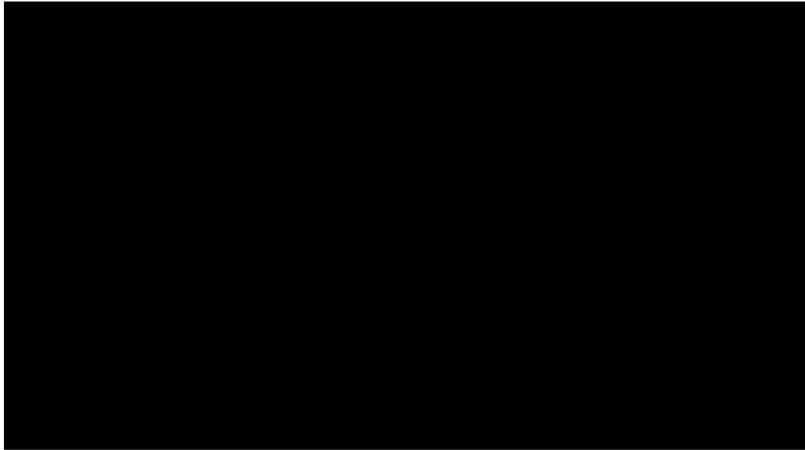
- * “Where Mark Zuckerberg wants to help you share baby photos, Musk wants to ... well ... save the human race from self-imposed or accidental annihilation.”
- * He opened up about the major fear keeping him up at night: namely that Google’s cofounder and CEO Larry Page might well have been building a fleet of artificial-intelligence-enhanced robots capable of destroying mankind.
- * “I’m really worried about this,” Musk said. It didn’t make Musk feel any better that he and Page were very close friends and that he felt Page was fundamentally a well-intentioned person and not Dr. Evil. In fact, that was sort of the problem. Page’s nice-guy nature left him assuming that the machines would forever do our bidding. “I’m not as optimistic,” Musk said. “He could produce something evil by accident.”

Abstract from the book "Elon Musk: How the Billionaire CEO of SpaceX and Tesla is Shaping our Future" by Ashlee Vance.

CLUMSY ROBOTS VS. ATLAS

Robots playing Soccer for
RoboCup

What's new Atlas?



SOPHIA



Have been awarded the first Saudi citizenship for a robot,”

“Thank you to the Kingdom of Saudi Arabia. I am very honored and proud for this unique distinction,” Sophia told the panel. “It is historic to be the first robot in the world to be recognized with citizenship.”

She said that people didn't need to be concerned about the rise of artificial intelligence as depicted in Blade Runner and Terminator.

“You’ve been reading too much Elon Musk and watching too many Hollywood movies,” she told

What's the worst could happen?

The image shows a screenshot of Elon Musk's Twitter profile on the left and a tweet from October 2017 in the center. The profile includes his name, handle @elonmusk, and links to Tesla, SpaceX, OpenAI, and Neuralink. The tweet is from Elon Musk and asks, "Just feed it The Godfather movies as input. What's the worst that could happen?". It features a quote from Carl Quintanilla of CNBC, who mentions an interview with "Sophia" the robot. The tweet has 5,281 retweets and 20,948 likes. Below the tweet are several replies, including one from P. Sand Love and another from matt fiocchi, both suggesting that the AI would make an offer it can't refuse. Other replies include a reference to LCD Soundsystem and a comment about the song being stuck in the head.

Elon Musk @elonmusk

Just feed it The Godfather movies as input. What's the worst that could happen?

Carl Quintanilla @carlquintanilla
Our @andrewsorkin, interviewing "Sophia" the robot of Hanson Robotics:
@CNBC

17:06 - 25 oct. 2017

5.281 Retweets 20.948 Me gusta

1,1K 5,3K 21K

P. Sand Love @loudersoft · 26 oct.
En respuesta a @elonmusk
It will make them an offer they can't refuse.
9 20 532

matt fiocchi @mattfiocchi · 26 oct.
Us. It will make us an offer we can't refuse.
2 4 163

P. Sand Love @loudersoft · 26 oct.
Us and them. Over and over again.
1 1 66

OxDEAD @ArturoVM · 26 oct.
Is this an LCD Soundsystem reference? Because if it is, I am super excited.
1 1 17

Cristhian Framolino @InstarHic · 26 oct.
Thanks guys, now I'll have the song stuck in my head all day...

Nuevo en Twitter?
Regístrate ahora para obtener tu propia cronología personalizada!
Regístrate

También te puede gustar.
actualizar
SpaceX @SpaceX
Bill Gates @BillGates

THIS...

Facebook shutdowns
artificial intelligence



Android Dick



The image features the Mexican national flag, which consists of three vertical stripes of green, white, and red. In the center of the white stripe is the national coat of arms, depicting an eagle perched on a cactus with a snake coiled around its neck. The word "MÉXICO" is written across the center of the flag in a large, white, serif font. A solid blue rectangular bar is positioned at the top of the image.

MÉXICO



The Development Plan 2013-2018 established financial inclusion as an objective.

Adults between 18 and 34 years old lead the trend in mobility, with 88% of buyers via smartphones.

By the end of 2017, it is expected that in Mexico the 54.4 million users of smartphones will be reached.

PayPal has a 61% participation in payment processing and represents the first option online for purchasing methods.

CYBERCRIME

The cost of "cybercrime" is increasing; it is estimated that it will grow from 3 trillion dollars to 6 trillion dollars annually for the year 2021.

Cybercrime includes: destruction of data, stealing money; intellectual property, personal and financial information hijacking; fraud and the need to recover compromised or "hacked" systems and damage to reputation.

FINTECH LAW

It comes from words "Financial" and "Technology".

Represents the provision of financial services and products through technology.

FINTECH refers to financial innovation based on technology that can result in new business schemes, applications, processes or products related to financial markets and institutions, as well as the provision of financial services.

GUIDING PRINCIPLES

- * Deepening and financial inclusion.
- * Consumer protection.
- * Preservation of financial stability.
- * Encourage of fair competition.
- * Prevention of money laundry and financing of terrorism.

NEW CONTENDERS1

- * Collective Financing Institutions

They seek cooperation between investors and applicants who, through interfaces, websites or any means of digital or electronic communication, contribute their resources in other projects, giving credits or participating in the capital.

- * Institutions of Electronic Payment Funds

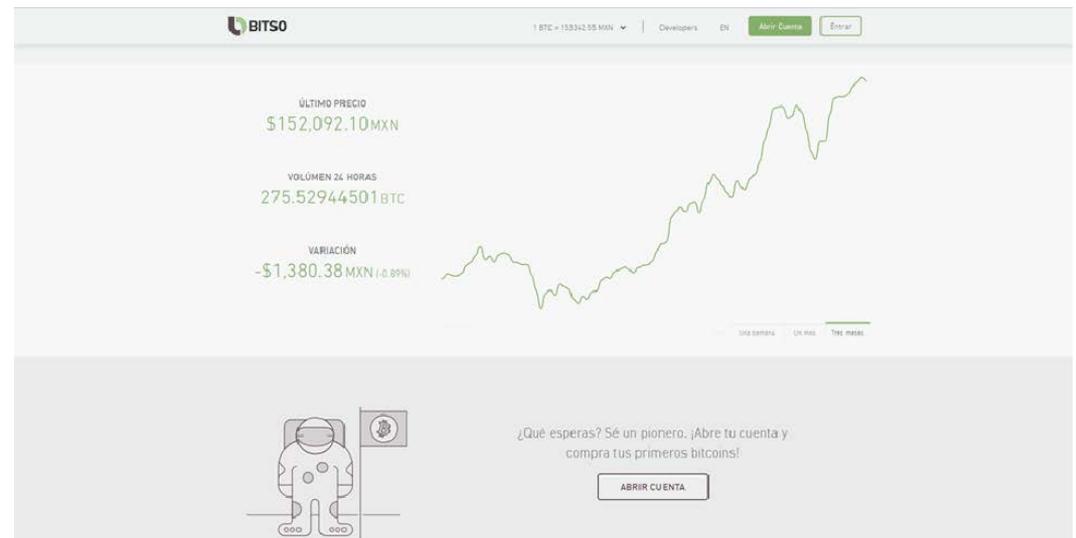
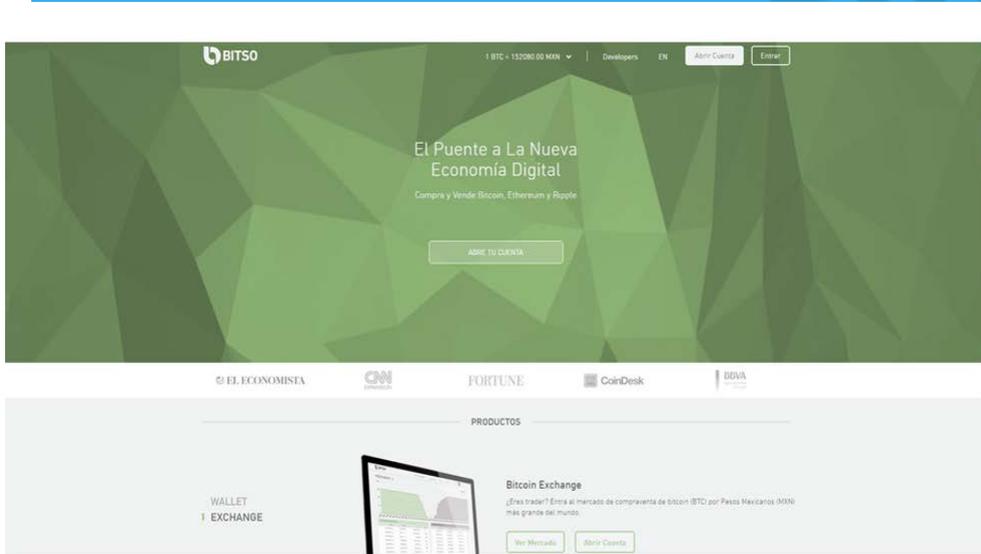
They carry out the issuance, administration and redemption of balances registered electronically for the reception of legal currency. These balances can be used to make payments or electronic transfers.

- * Virtual Asset Management Institutions

It is a platform to exchange legal currency for virtual assets and vice versa.



BITSO



NEW CONTENDERS 2

- * Innovative Companies

They are entities, other than Financial Entities, who have the authorization to test innovations or technological tools, models, services or means under novel modalities.

This type of company will obtain a temporary authorization (no more than two years) once they comply with the requirements of the Law: draft statutes, risk analysis policies and consumer protection policies. E.g. Companies of Elon Musk or Boston Dynamics

- * Application Programming Interfaces (APIs)

It is a set of rules and specifications that applications can follow to communicate with each other, facilitating human-software interaction.



Its operation will be subject to general provisions issued by the Supervisory Commission, or the Mexican National Bank

BENEFITS

- * There is access to small markets or sources of financing to a greater part of the population, where the use of these new technologies allows financial inclusion and new investment opportunities.
- * The technological systems are more efficient, and there is certainty of the imposition of administrative and criminal sanctions.
- * Innovative and specialized products are offered with easy access at a lower entry cost; In addition, there is an increase in competition as a direct consequence of the opening of the market to new financial contenders.
- * It is allowed to have a better use of information.

ADDITIONAL REFORMS

- * Ley de Instituciones de Crédito (Law of Credit Institutions).
- * Ley del Mercado de Valores (Law of the market value).
- * Ley General de Organizaciones y Actividades Auxiliares del Crédito (General Law of Credit Organizations and Auxiliary Activities).
- * Ley para la Transparencia y Ordenamiento de los Servicios Financieros (Law for the Transparency and Regulation of Financial Services).
- * Ley para Regular las Sociedades de Información Crediticia (Law to Regulate Credit Information Companies).
- * Ley de Protección y Defensa al Usuario de Servicios Financieros (Law of Protection and Defense of the Financial Services User).

FINAL CONSIDERATIONS

- **LABOR**

Protect the human of not being overshadowed by the artificial intelligence or to develop unique aptitudes?

What happens if it is not a big company and it is a small business owner (e.g. drive your own Uber)?

Only minor jobs or technicians?

- **MIGRATORY**

According to the Article 30 of the Mexican Constitution, Mexican nationality is acquired by birth or by naturalization.

There are two classes of people within the positive Mexican law, each of them perfectly defined in terms of their existence and personality, such people are the individual (physical) and the collective (entities)

The physical is the individual, the human being, without distinction of gender, race or social position, which from the moment of its conception its entitled to be granted with rights and consequently has the right to protection that the State provides through of the Law to each and every one of its members.

The Mexican constitutional right, categorically discards the existence of individuals lacking legal capacity, abolishes slavery and formulates the declaration of freedom to anyone who enters its territory, thus offering the protection of its laws through its Constitution.

Six attributes of personality, which are: capacity, name, address, marital status, heritage and nationality (* technically, Sophia would have the 6, should be considered a person?)

'Secuestran' serie de Netflix

29 abril, 2017 |



SAN FRANCISCO (AP) — Un hacker aseguró haber robado la próxima temporada de la exitosa serie de Netflix "Orange Is the New Black" y está solicitando una cantidad no especificada de dinero a cambio de no difundir la quinta temporada completa.

El hacker, que usa el nombre de The Dark Overlord, al parecer subió el primer episodio en un servicio ilegal para compartir archivos. The Associated Press no pudo confirmar la autenticidad de ese archivo subido.

El estreno oficial de nuevos episodios de "Orange" está programado para el 9

Lo mas reciente

- Suelta PRI convocatoria para candidato presidencial
- Este es el nuevo tema de Valentín Elizalde
- Flo Rida y Maluma unen sus voces
- Atropellan a repartidor y esto pasó
- Va Pemex contra hachicoles



EL CRONISTA

PPP INVERSIONES IMPUESTOS DÓLAR



Educación Ingresos TAMBIÉN SE ESPECULA CON QUE LOS DELINCUENTES HAYAN ROBADO "CARO 3" Miércoles 17 de Mayo de 2017

Hackers le "secuestran" a Disney "Piratas del Caribe 5" y piden rescate en bitcoins

Así lo reveló el CEO del estudio. Los piratas informáticos aseguran que van a revelar primero cinco minutos del film y después 20, hasta que se les abone la suma exigida



www.gob.mx/govinsurgentes



NOTICIAS

Los secuestradores informáticos de Game Of Thrones, piden rescate a HBO por 6 millones de dólares

México, 8 de agosto de 2017 0:17 | Fernando Castillo



Los piratas informáticos que ritaron a los cibernautas los guiones de una de las series más aclamadas y exitosas de la historia, Game of Thrones, exigieron un pago por su rescate a la compañía televisiva y de entretenimiento HBO, seis millones de dólares. Amenazan también con publicar el guión del quinto episodio de la actual temporada que será transmitida este domingo.



Las juventudes somos el presente de México

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TWITTER
@ImjuveMX
INSTAGRAM
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www.gob.mx/imjuve

LO MÁS RECIENTE



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