Industria 4.0

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FOMENTO ECONÓMICO DE CHIAPAS A.C.

7 de octubre, 2021

Megatendencias

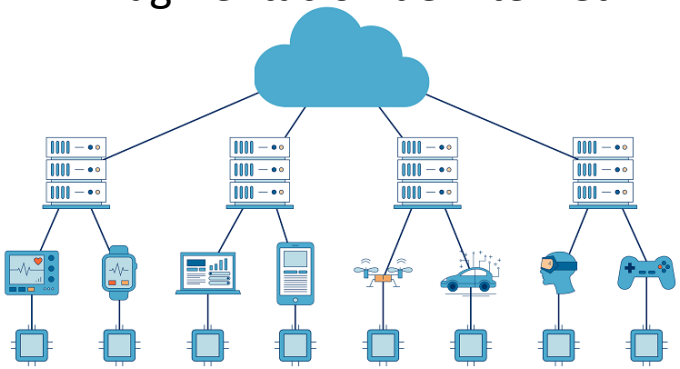
Probable recesión global por desaceleración

Comportamiento de los bancos centrales y casas de Bolsa

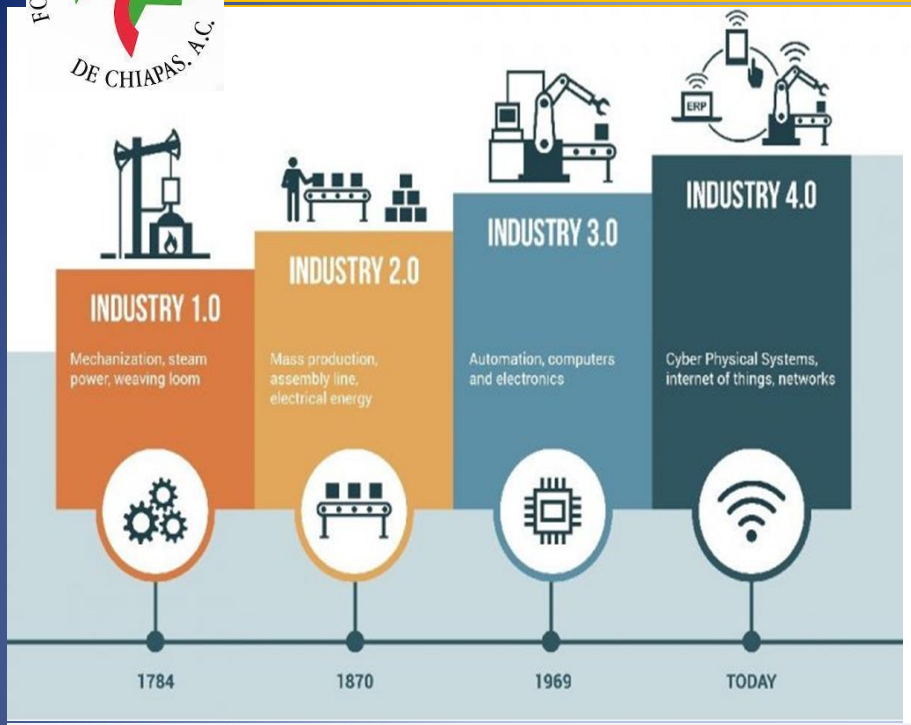
Demografía (escaseo de recursos)

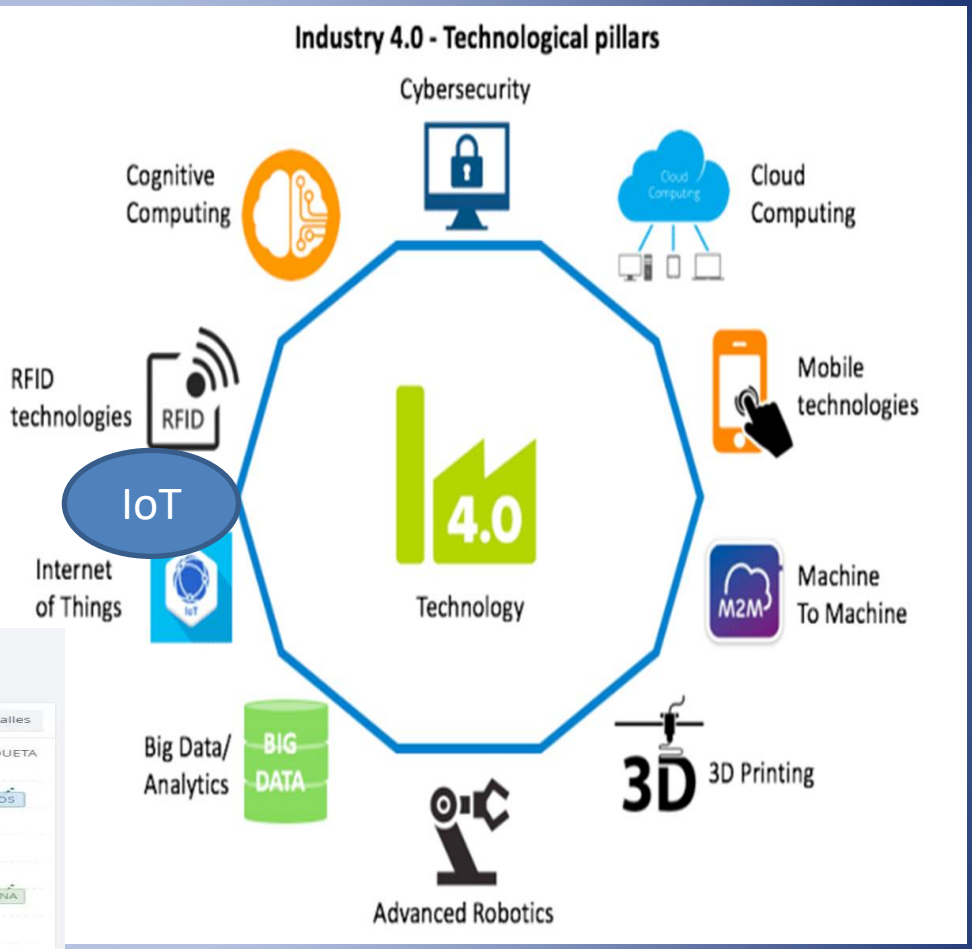
https://cincodias.elpais.com/cincodias/2020/01/03/opinion/1578062216_912543.html

Fragmentación de Internet



Industria 4.0 (Qué es?)





https://www.econolibertad.com/evolucion-del-pib-mundial-1960-2017-video/

Industria 4.0 e IoT

- The ***Internet of Things (IoT)*** refers to the ever-growing network of physical objects that feature an IP address for internet connectivity, and the communication that occurs between these objects and other Internet-enabled devices and systems.

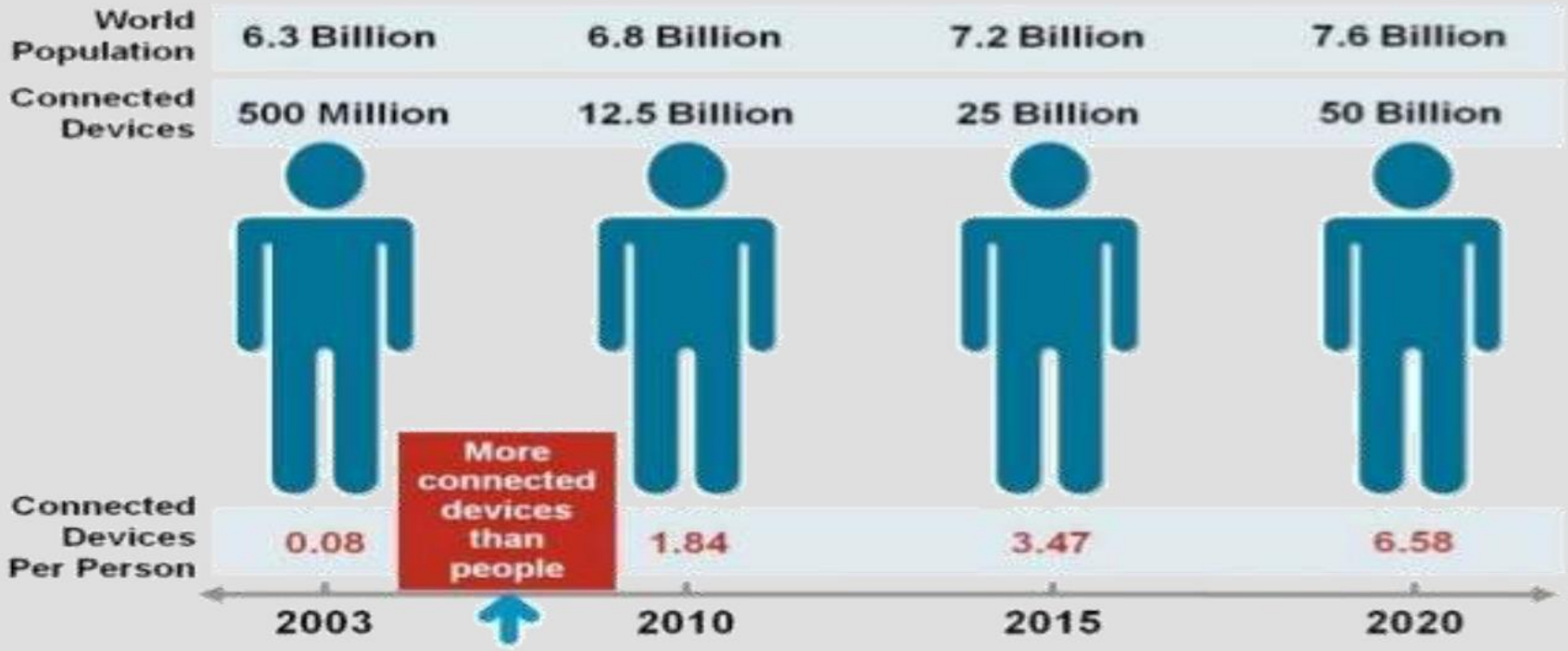
- In simple words, ***Internet of Things (IoT)*** is an ecosystem of connected physical objects that are accessible through the internet.

Internet de las Cosas (IoT). Porqué IoT?

Why IoT ?

- Dynamic control of industry and daily life.
- Improves the resource utilization ratio.
- Integrating human society and physical systems.
- Flexible configuration.
- Acts as technology integrator.
- Universal inter-networking.

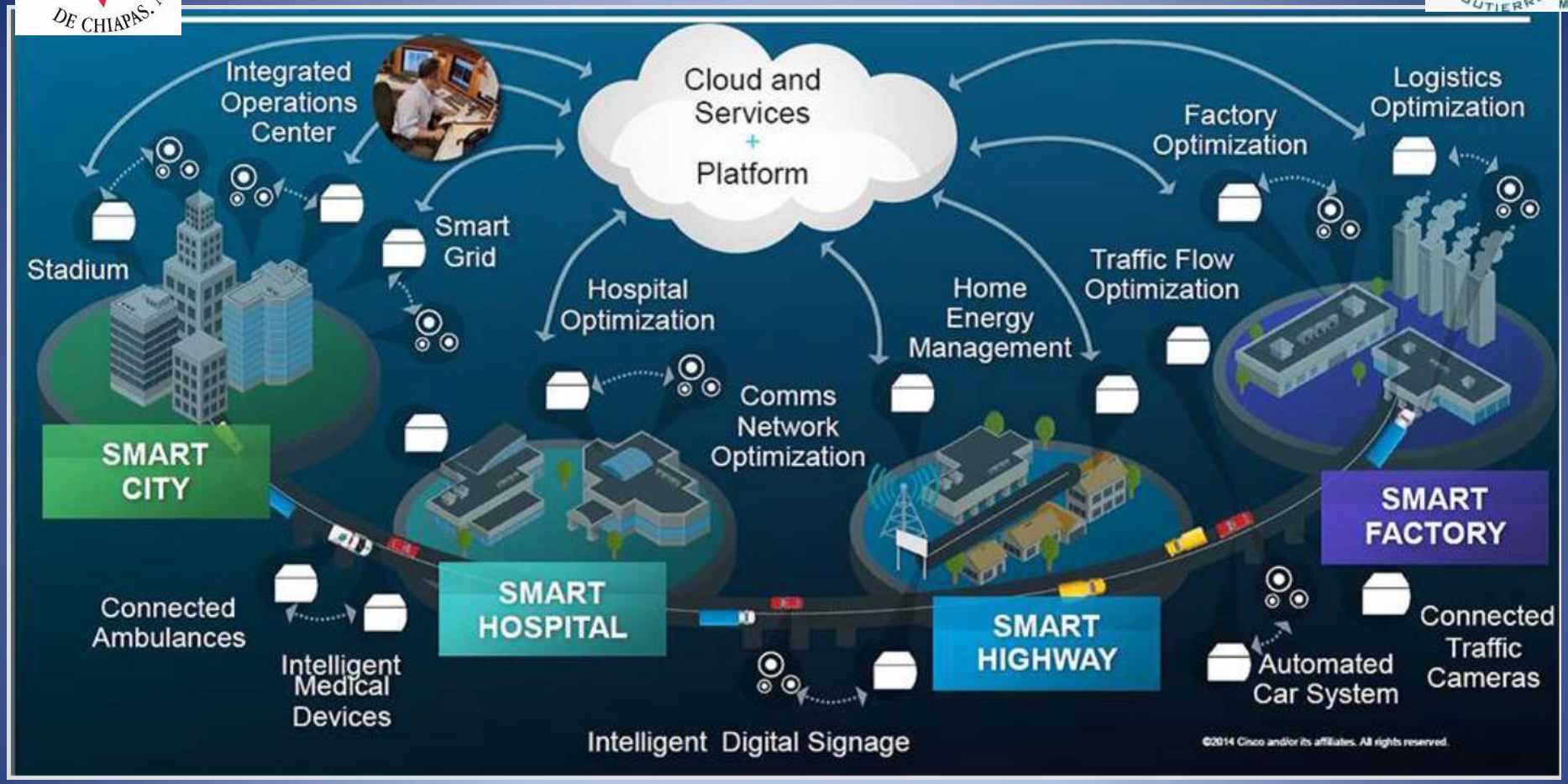
Current status & future prospect of IoT



By the year 2020, there will be a lot more connected devices than people on earth

Projections for the impact of IoT on the Internet And economy are impressive, as many as **100 billion Connected IoT devices** and a global economic impact of more than $11 trillion by **2025**

Industria 4.0 e IoT. Smart + …



Smart + … **Smartphone**

Industria 4.0 e IoT. Aplicaciones RFID en los negocios

México entre los 10 viajeros más digitales del mundo

diciembre 25, 2018

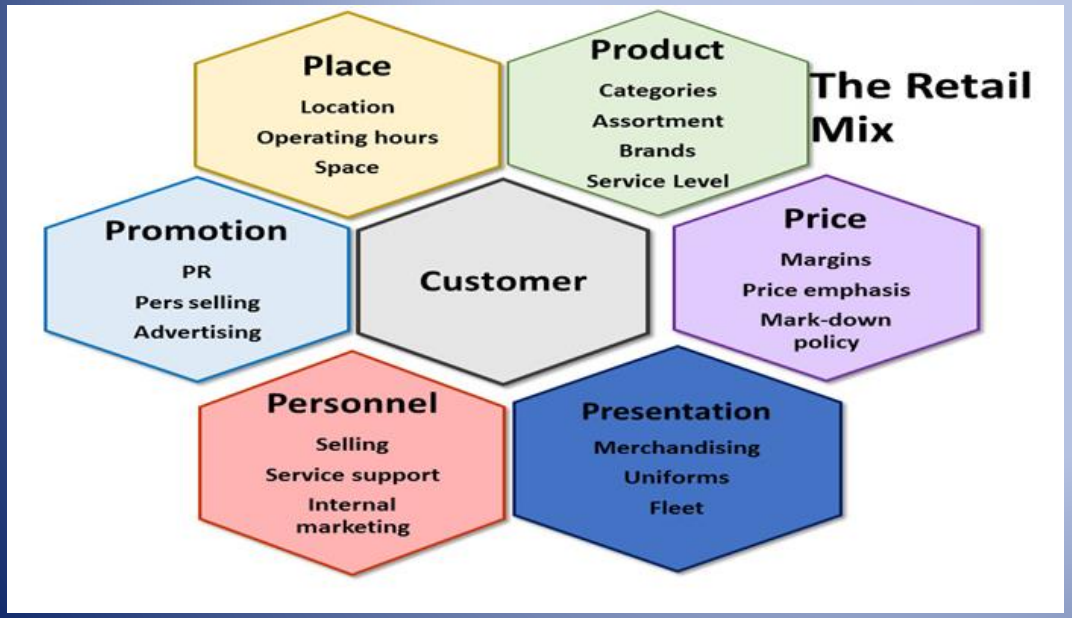
El estudio señala que 2,1 mil millones de viajeros pagará con su móvil en 2019

Las 10 tendencias del turismo digital

11 mayo 2016

Enterprise IoT Solutions
Device Level
Hub Level
IoT Solutions
Applications
https://www.ruddersoft.com/blog/enterprise-iot-solutions-and-services/8

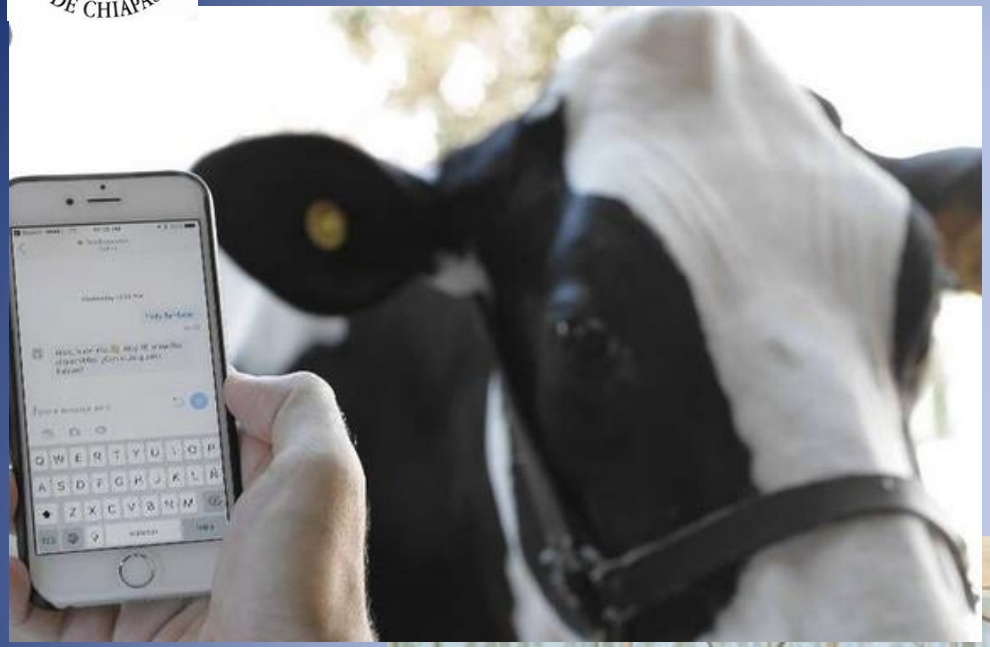
3 modelos de negocio basados en el internet de las cosas
https://proptechlab.com/iot-modelos-neaocio/


The Retail Mix
Place
Location
Operating hours
Space
Product
Categories
Assortment
Brands
Service Level
Promotion
PR
Pers selling
Advertising
Customer
Price
Margins
Price emphasis
Mark-down policy
Personnel
Selling
Service support
Internal marketing
Presentation
Merchandising
Uniforms
Fleet

Enterprice

Industria 4.0 e IoT. Aplicaciones en Arquitectura

Industria 4.0 e IoT. Aplicaciones en Agronomía y Veterinaria



Aplicación IoT: Medición de parámetros ambientales en tiempo real

NodeMCU

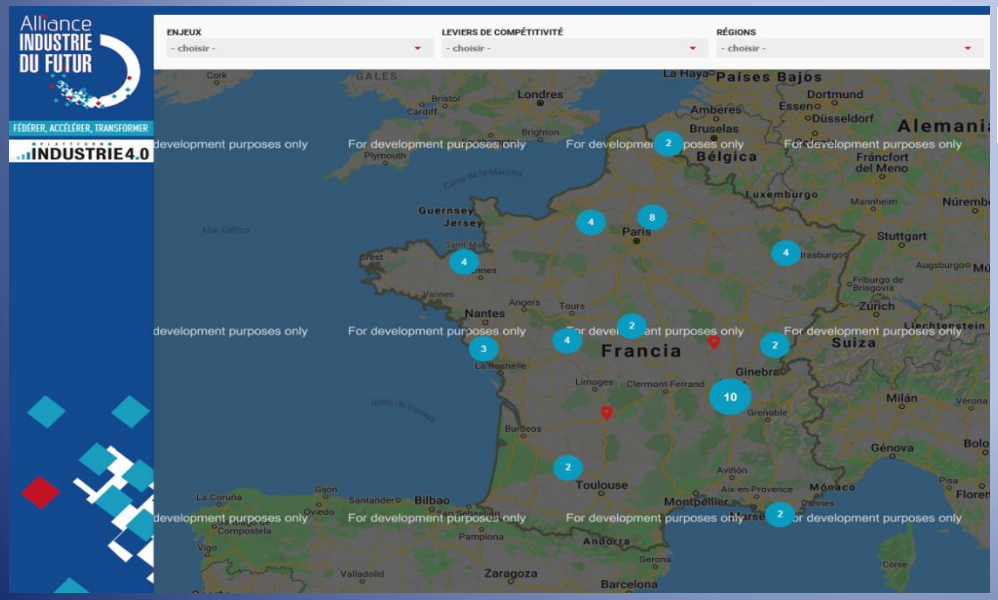
La realidad virtual (RV) es un entorno de escenas u objetos simulados de apariencia real.

La realidad aumentada (RA). A la realidad virtual se añade información física existente, es decir, una parte virtual aparece en la realidad

Industria 4.0 en el mundo

https://www.plattform-i40.de/IP/Redaktion/EN/Infographics/vision2030.html

Alemania

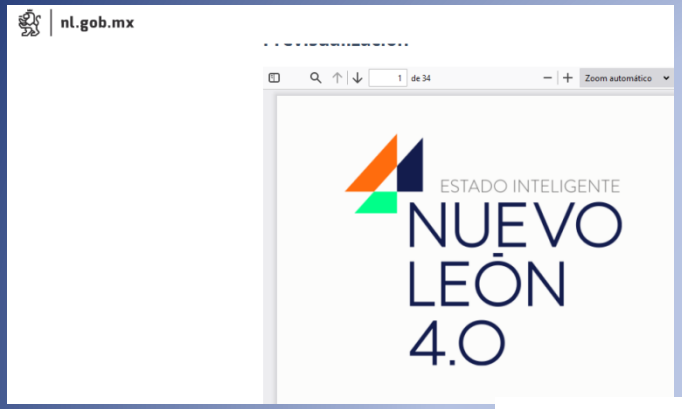


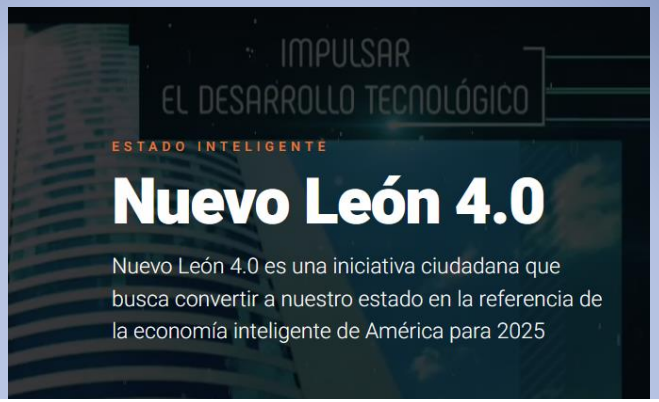
http://exemples-aif.industrie-dufutur.org/

https://www.gouvernement.fr/action/la-nouvelle-france-industrielle

Los 34 planes de la Francia Industrial del mañana

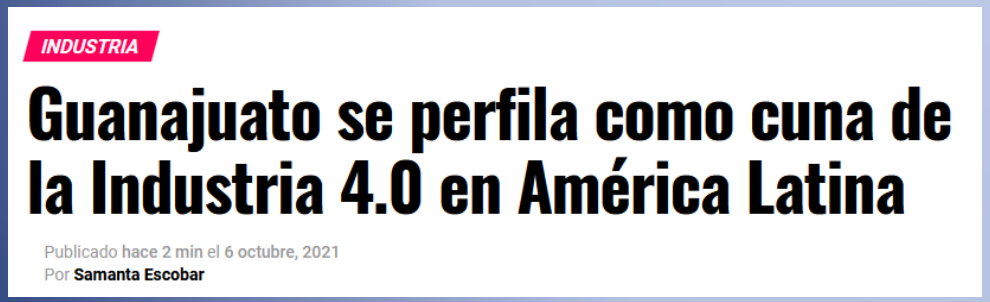
Industria 4.0 en México





https://www.nuevoleon40.org/

https://www.nl.gob.mx/publicaciones/nuevo-leon-40



https://www.ugto.mx/noticias/noticias/16852-se-realiza-en-la-ug-el-1er-foro-de-innovacion-e-industria-4-0

Oportunidades de la Industria 4.0

Industry 4.0 Opportunities

1. Optimization and automation lead to enhanced productivity

Conducir a una mayor productividad

2. Real-time data for real-time supply chains in a real-time economy

Cadenas de suministro

3. Advanced maintenance and monitoring possibilities will enable greater business continuity

mejor continuidad del negocio

4. Real-time monitoring, IoT-enabled quality improvement and cobots (collaborative robots) will lead to higher quality products

conducir a productos de mayor calidad

5. Superior sustainability and better working conditions

Sustentabilidad

6. Earn the trust and loyalty the modern consumer with personalization opportunities

Ganar confianza

Retos de la Industria 4.0 (Conclusiones)

Challenges with Industry 4.0

una brecha en las habilidades técnicas

sensibilidad de los datos

Interoperabilidad

Seguridad

Manejo de crecimiento de datos

Industria 4.0

Internet de las Cosas (IoT)

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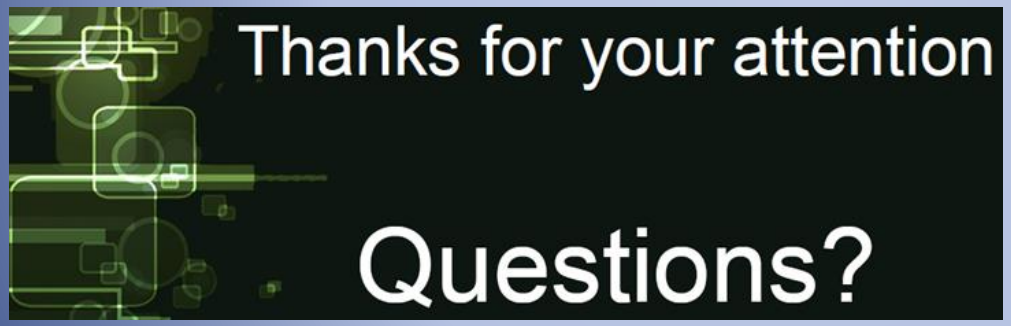

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