



Nuevos Modelos de Cadena de Suministro ante la COVID-19

Héctor Armando Figueroa Urrea
Profesor investigador
UPMH ILT

Objetivo:

Identificar tendencias tecnológicas disruptivas y los efectos que estas tecnologías generan en las cadenas de suministro globales derivado de la actual pandemia.

DEEPLARNING
RESILIENCE
RETAIL
PLANNING IOT BIGDATA
SUPPLYCHAIN RISK BLOCKCHAIN
ANTICIPATION
PAYMENTMETHODS
DISTRIBUTION
COVIDDISRUPTIVE
ARTIFICIALINTELLIGENCE
AUTOMATIONPANDEMIC

Dow Jones Transportation Averag (^DJT) ☆

DJI - DJI Real Time Price. Currency in USD

8,805.74 -194.56 (-2.16%)

At close: June 26 5:24PM EDT

Indicators Comparison Date Range 1D 5D 1M 3M 6M YTD **1Y** 2Y 5Y Max Interval 1D Line Draw



COMPONENTES DJT

Empresa	Giro	Sector
1.-Alaska Air Group, Inc. (ALK)	Transporte	Aéreo
2.-American Airlines (AAL)	Transporte	Aéreo
3.-Avis Budget Group, Inc. (CAR)	Transporte terrestre	Renting/Leasing vehicles
4.-C.H. Robinson Worldwide, Inc. (CHRW)	Logística y transporte	Operador logístico
5.-CSX Corp. (CSX)	Transporte	Ferroviario
6.-Delta Air Lines (DAL)	Transporte	Aéreo
7.-Expeditors International (EXPD)	Logística y transporte	Operador logístico
8.-FedEx (FDX)	Logística y transporte	Operador logístico (Mensajería y paquetería)
9.-J B Hunt Transport Services, Inc. (JBHT)	Logística y transporte	Operador logístico
10.-JetBlue Airways Corp. (JBLU)	Transporte	Aéreo

COMPONENTES DJT

Empresa	Giro	Sector
11.-Kansas City Southern (KSU)	Transporte terrestre	Ferrovionario
12.-Kirby Corp. (KEX)	Transporte marítimo/carga	Operador Logístico
13.-Landstar System, Inc. (LSTR)	Transporte terrestre	Ferrovionario
14.-Matson, Inc. (MATX)	Transporte marítimo/carga	Operador Logístico
15.-Norfolk Southern (NSC)	Transporte terrestre	Ferrovionario
16.-Ryder System, Inc. (R)	Transporte terrestre	Transporte y alquiler de camiones
17.-Southwest Airlines (LUV)	Transporte	Aéreo
18.-Union Pacific (UNP)	Transporte terrestre	Ferrovionario
19.-United Continental Holdings (UAL)	Transporte terrestre	Transporte de carga
20.-United Parcel Service (UPS)	Transporte terrestre	Operador logístico (mensajería y paquetería)

GANADORES

- **Salud** (Gel desinfectante, mascarillas, ...)
- **Limpieza** (Sanitizantes, cloro, ...)
- **E-commerce** (AMZN, SHOPIFY...) [15%]
- **Proveedores de internet y telefonía**
- **Servicios logísticos** entrega y recolección (uber eats, instacart...)
- **Mensajería y paquetería**
- **Sistemas de pago electrónico** (Visa, Mastercard, Paypal...)
- **Plataformas educativas** (Platzi, Udemi, Coursera, Edx)

PERDEDORES

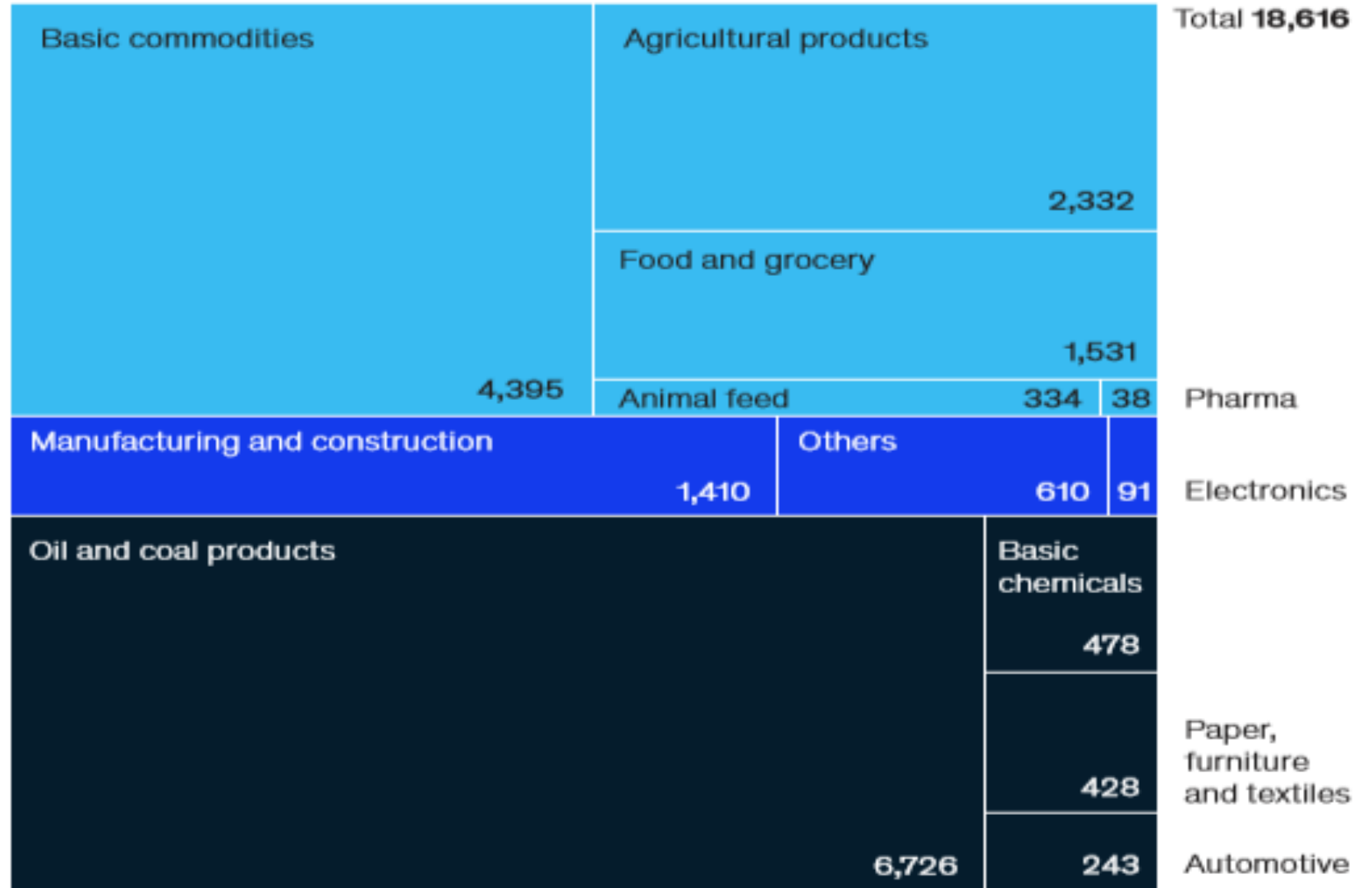
- **Retail.** [85%]
- **Transporte de pasajeros** (Cruceros, aerolíneas)
- **Restaurantes**
- **Eventos Masivos** (conciertos, deportes)
- **Servicios Turísticos.** (Hoteles, Spas, ...)
- **Entretenimiento** (Cines, teatros, discotecas...).
- **Bancos tradicionales**
- **Industrias no esenciales** (cerveza).

Key factors impacting COVID-19 recovery

- Faster to return
 - ↑ Increased demand for consumer essentials
 - ↑ National priority
 - ↑ Acceleration of e-commerce

- Neutral
 - ↓ Lower income and consumer demand for nonessential goods
 - ↑ Potential reshoring

- Longer to return
 - ↓ Slowdown in US oil and gas production
 - ↓ Declining demand for nonessentials
 - ↑ Potential reshoring



Modos de transporte (Estrategias de adaptación)

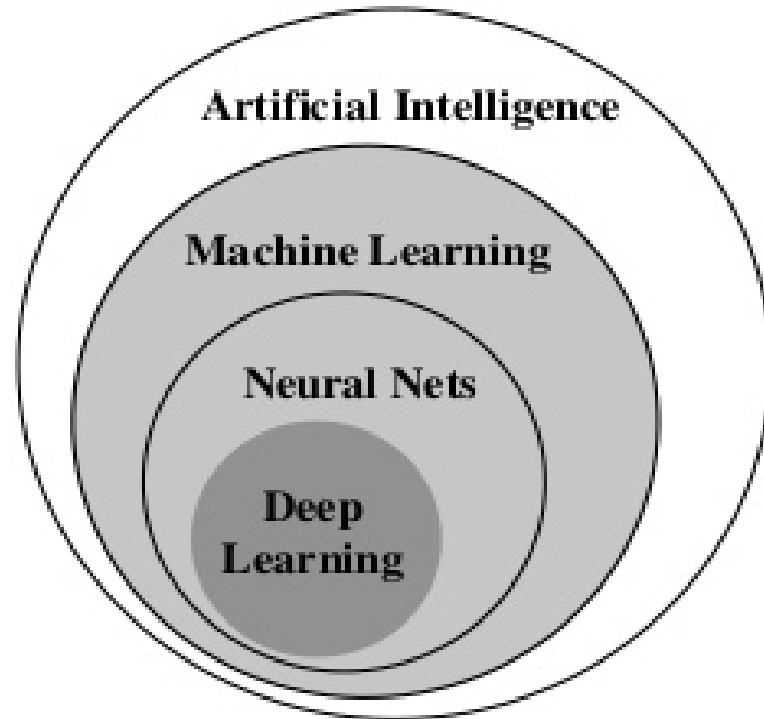
Aéreo	Marítimo	Carretero	Ferrovionario
<ul style="list-style-type: none"> -Movimiento de commodities en la nueva normalidad. (nuevos clientes). -Servicios asociados -Renegociación de contratos 	<ul style="list-style-type: none"> -Consolidación de la carga -Frecuencia en rutas -Energías renovables -Servicios Intermodales -Slow steaming 	<ul style="list-style-type: none"> -Capacidad adecuada para distribuir commodities en crecimiento (salud, alimentos, provisiones) -Adaptación y diseño nuevas estructuras de costos 	<ul style="list-style-type: none"> -Mejorar servicios intermodales -Energías renovables

“La recuperación de cualquier modo de transporte dependerá de la mezcla de productos y clientes.”

Tecnologías Disruptivas



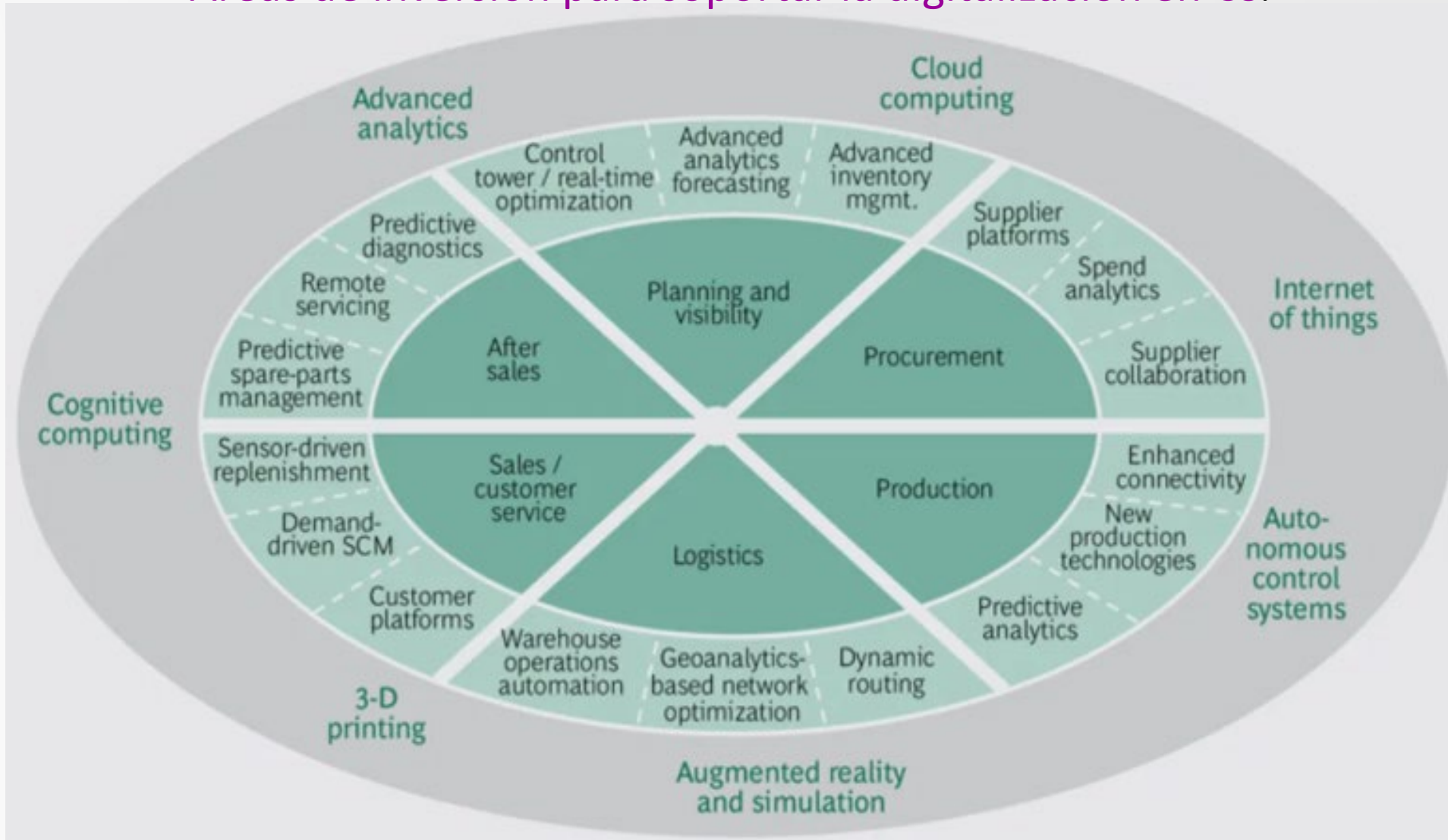
Computer Science



Relación

- **AI.-** Uso de computo en actividades cognitivas.
- **Machine Learning.-** Métodos estadísticos computarizados para identificar patrones y tendencias.
- **Neuronal Net.-** Sistema de computo basado en conexiones neuronales cerebrales.
- **Deep Learning.-** Programa que reconoce objetos.

Áreas de inversión para soportar la digitalización en CS.



Blockchain use cases

A wide array of use cases beyond payments and transactions is receiving attention.

Q. On which of the following blockchain use cases is your organization or project working?

■ Percentage of respondents citing blockchain use case as an area of focus



Aplicaciones por modo de transporte

Aéreo	Marítimo	Carretero	Ferrovionario
<ul style="list-style-type: none"> -Data Analytics -Blockchain -Transactions -Smart contracts -Tracking &Tracing -Crypto Seals -Anti-counterfeiting -Provenance 	<ul style="list-style-type: none"> -Data Analytics -Blockchain -Transactions -Smart contracts -Tracking &Tracing -Intermodal (crypto Seals) -Anti-counterfeiting -Provenance 	<ul style="list-style-type: none"> -Data Analytics -Blockchain -Transactions -Tracking &Tracing -Intermodal (crypto Seals) -Anti-counterfeiting -Provenance 	<ul style="list-style-type: none"> -Data Analytics -Blockchain -Transactions -Smart contracts -Tracking &Tracing -Intermodal (crypto Seals) -Anti-counterfeiting -Provenance

Conclusiones

- Las cadenas de suministro globales son dinámicas y están en constante cambio.
- La pandemia esta actuando como un catalizador en muchas áreas de la cadena de suministro acelerando la creación o modificación de nuevos procesos.
- Las tecnologías disruptivas integradas ofrecerán soluciones novedosas en el ecosistema.
- Algunos procesos logísticos tenderán a desaparecer o a ser modificados de manera profunda.

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*We Are
Lions*

Gracias por su atención