

DiGI-VET

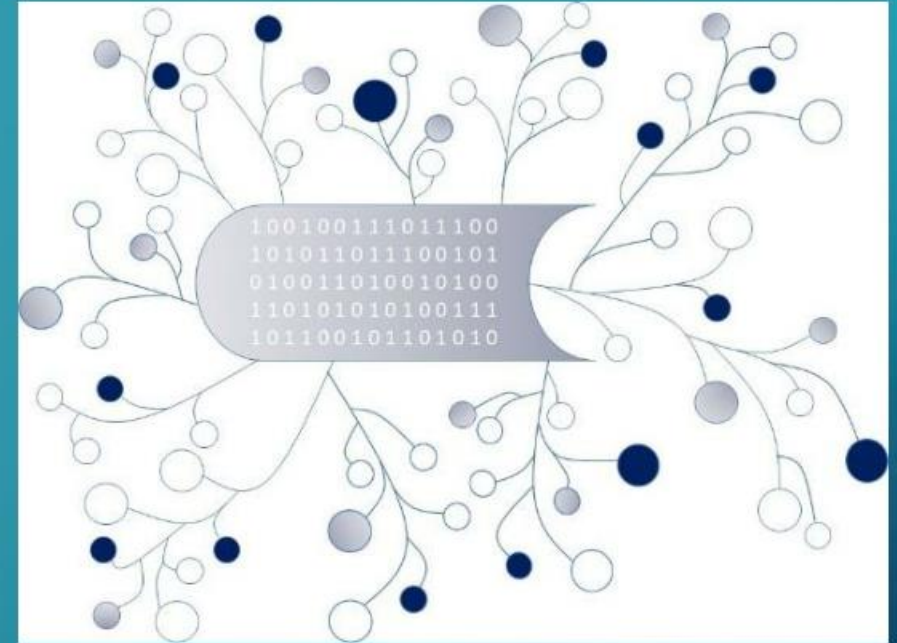
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DiGI-VET

FOSTERING DIGITISATION AND INDUSTRY 4.0 IN
VOCATIONAL EDUCATION AND TRAINING

Training Modules for the Learner
Module C:
Current Status and future developments
University of Paderborn, Jennifer Schneider

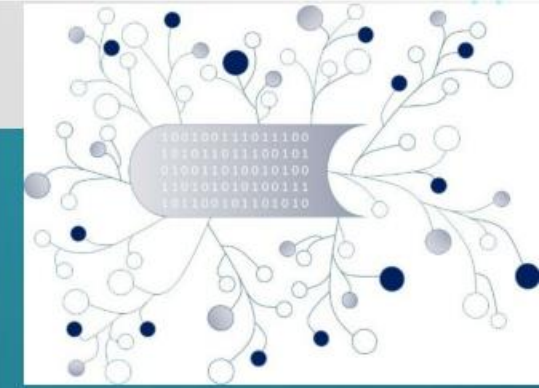
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Agenda of Module C: Current Status and future developments



1. Current Status: Meaning of Internet of Things (IoT)

1.1 Task - Advertising Video of BOSCH - Demonstrate IoT in daily life

1.2 Task – H5P Task: Memory Game

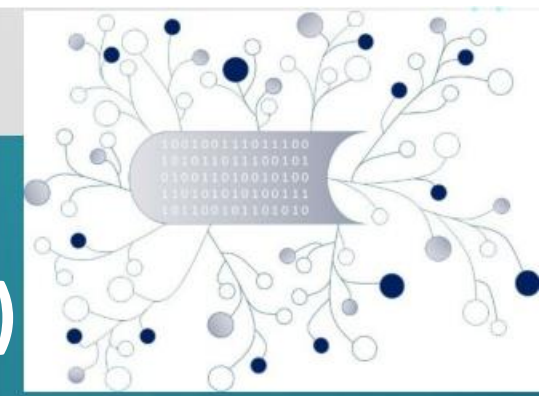
1.3 Task – H5P Task: Find the words from the grid

2. Future developments of IOT

2.1 Task – Video

2.2 Task – Mind Map

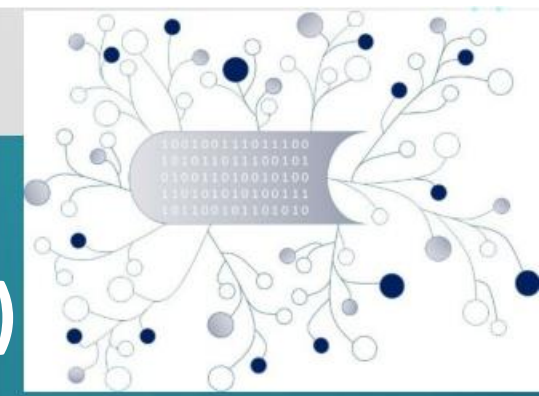
1. Current Status: Meaning of Internet of Things (IOT)



Common definition:

Internet of Things (IoT) as a network of physical objects.

„[...] IoT is a global infrastructure for the information society, enabling advanced services by interconnecting (physical and virtual) things based on existing and evolving interoperable information and communication technologies.“ Patel, K.; Patel, S. (2016)



1. Current Status: Meaning of Internet of Things (IoT)

- Anything** • Any devices (smartphones, tablets, laptops, etc.)
- Anyone** • Everyone (every person can be part of IoT)
- Any Services** • regardless of company size, industry and business
- Any Path** • Any network is possible
- Any Place & Anytime** • Flexibility in time and place due to the benefits of digitalisation and the connection to the internet

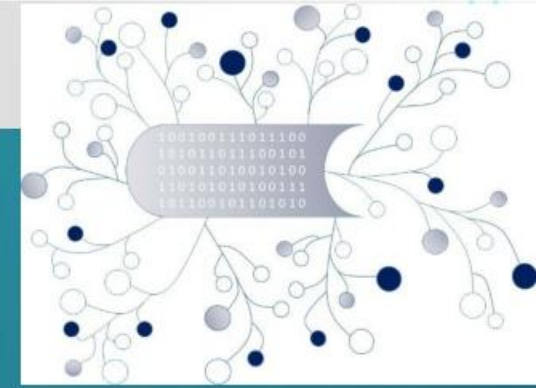

Properties and unique selling points of the Internet of Things

Source: <https://www.ida.gov.sg/~media/Files/Infocomm%20Landscape/Technology/TechnologyRoadmap/InternetOfThings.pdf>
<http://tblocks.com/internet-of-things>

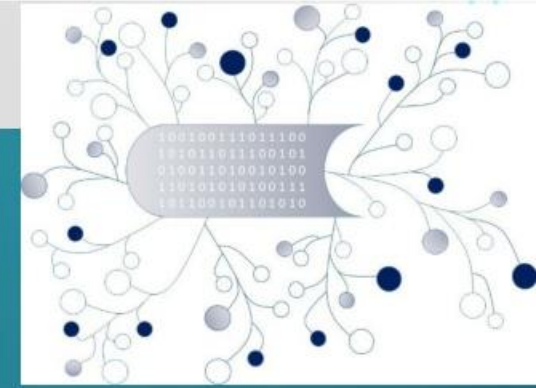
TASK

Task

Please watch the following **Advertising Video of BOSCH - Demonstrate IoT in daily life.**
Please take some notes!



1.1 Task

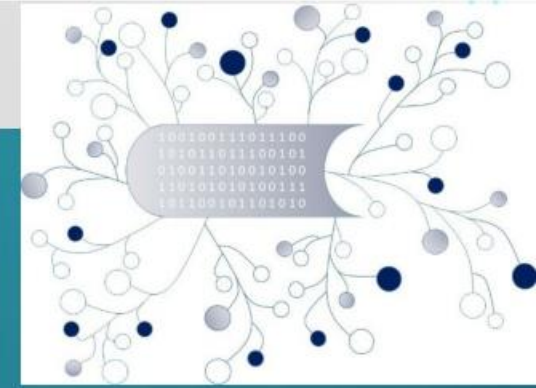


<https://www.youtube.com/watch?v=v2kV6pgJxuo>

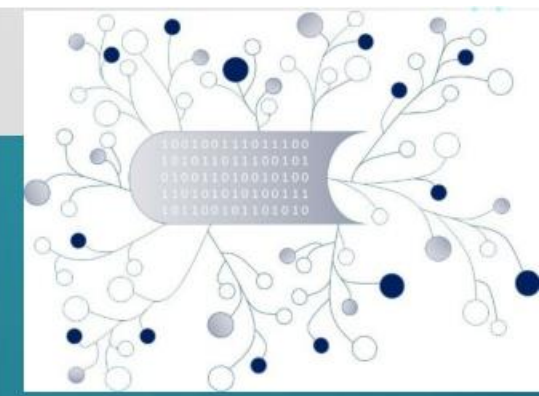
TASK

Task

Please answer the next H5P.org tasks!



1.2 Task



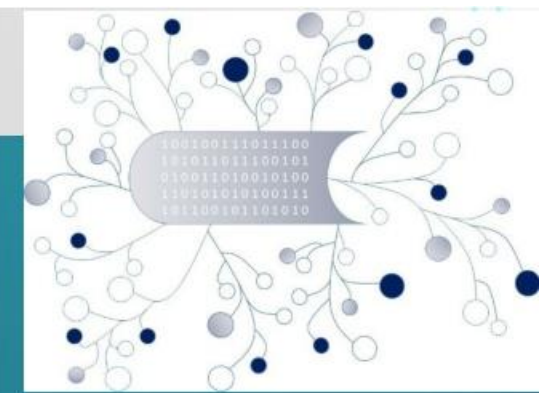
VET_Learner_MC_Current-
Status_Task1_DE

Memory Game

[h5p id="3"]

Please play the following memory game with facts of IoT.

1.3 Task



Find the words from the grid

O	H	D	T	Q	S	G	Z	C	I	O	T	O	D	D	B
N	O	Y	F	M	G	A	A	N	Y	T	H	I	N	G	N
I	R	X	R	O	N	D	E	V	I	C	E	S	P	J	N
A	K	W	M	L	I	E	X	Y	L	M	P	D	W	F	Q
V	N	I	L	H	H	B	B	T	S	F	D	Z	S	D	H
E	R	Y	X	Q	T	T	T	I	Z	U	F	G	A	E	V
M	M	G	P	L	F	P	E	V	G	S	S	E	W	A	C
W	U	I	J	A	O	T	K	I	L	D	O	G	G	A	A
L	Z	J	T	P	T	R	K	T	A	T	D	L	H	B	H
B	K	L	R	Y	E	H	Y	C	U	B	O	Z	M	B	Y
B	W	N	T	I	N	K	L	E	A	Q	X	O	E	T	E
N	U	S	N	W	R	A	M	N	E	T	W	O	R	K	J
K	E	L	X	S	E	J	Y	N	T	E	V	C	M	U	D
M	Y	O	U	Z	T	O	A	O	X	W	U	F	R	B	J
P	J	S	R	R	N	P	I	C	V	E	Q	R	Y	Y	Z
N	I	N	E	E	I	Y	D	Q	U	A	W	R	E	P	U

Find the words

InternetofThings AnyPath Anyone Anytime Anything network connectivity IoT devices

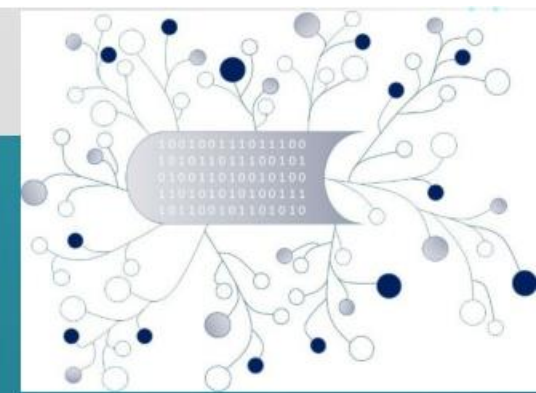
Please find the words from the grid!

[h5p id="4"]

2. Future developments of IoT



“IoT is when everyday products such as refrigerators, watches, speakers and more connect to the internet and to one another. The Internet of Things is already transforming our homes and workplaces.”*



* <https://www.forbes.com/sites/bernardmarr/2018/09/12/19-astonishing-quotes-about-the-internet-of-things-everyone-should-read/#4b82d98ce1db>

2. Future developments of IoT

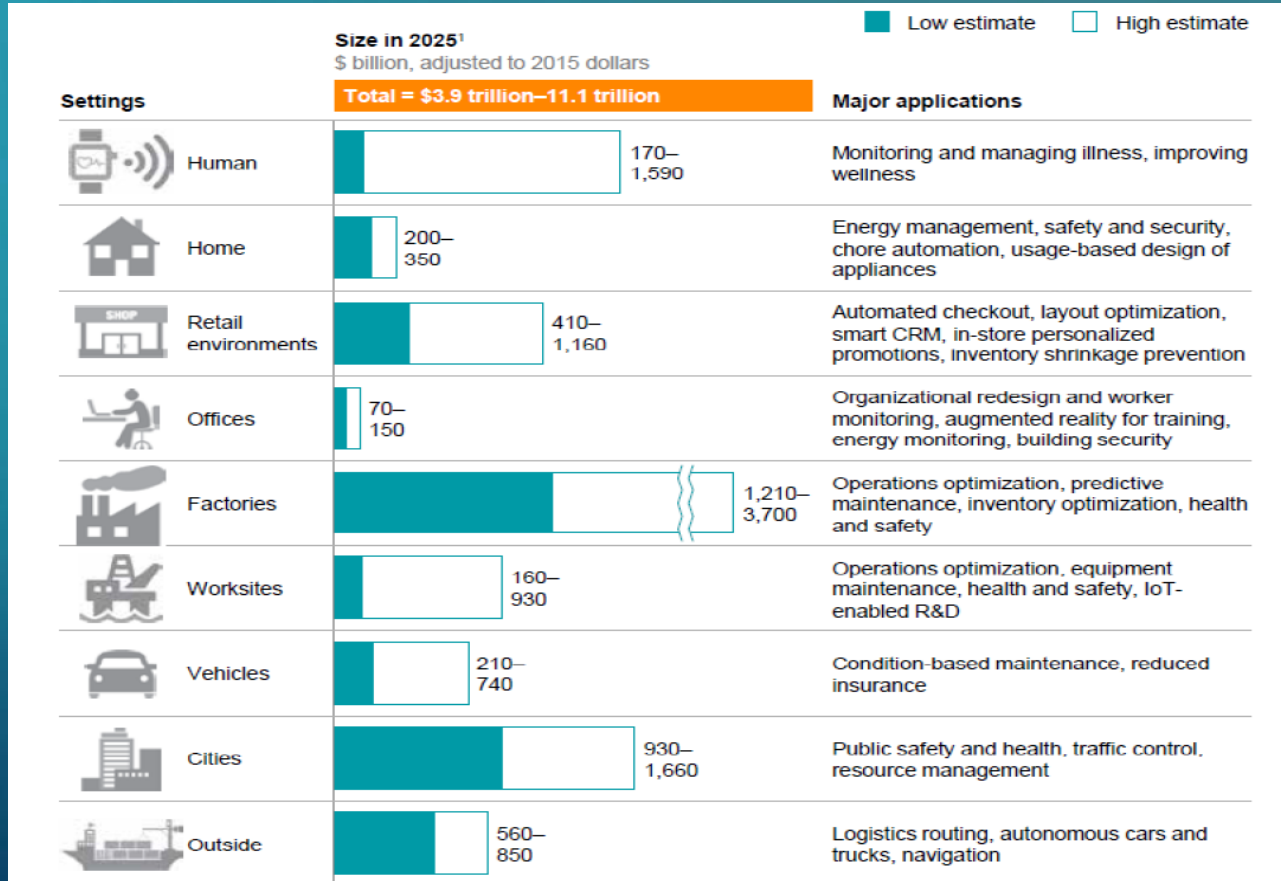
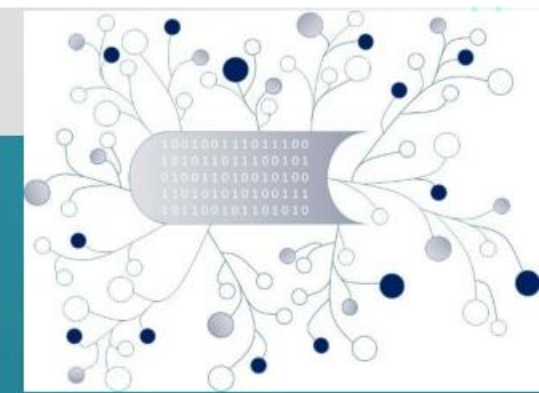


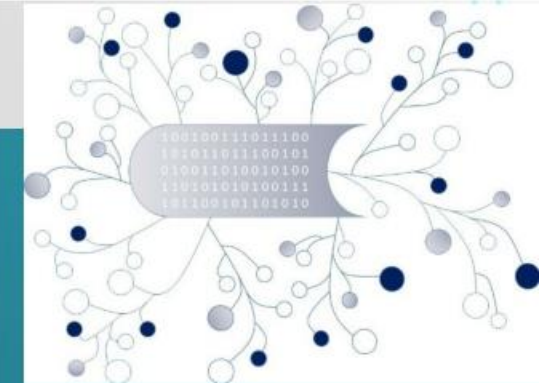
Fig.: Potential IOT Economic Impact by 2025

Manyika, J. et al., (2015).

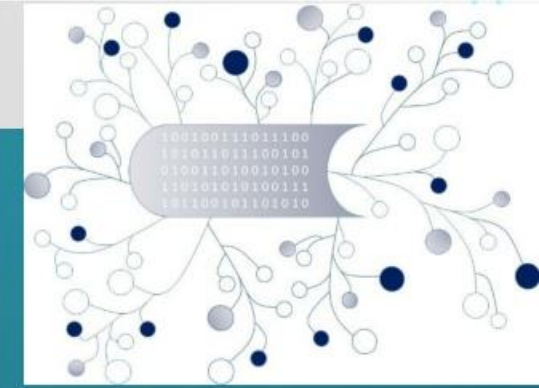
TASK

Task

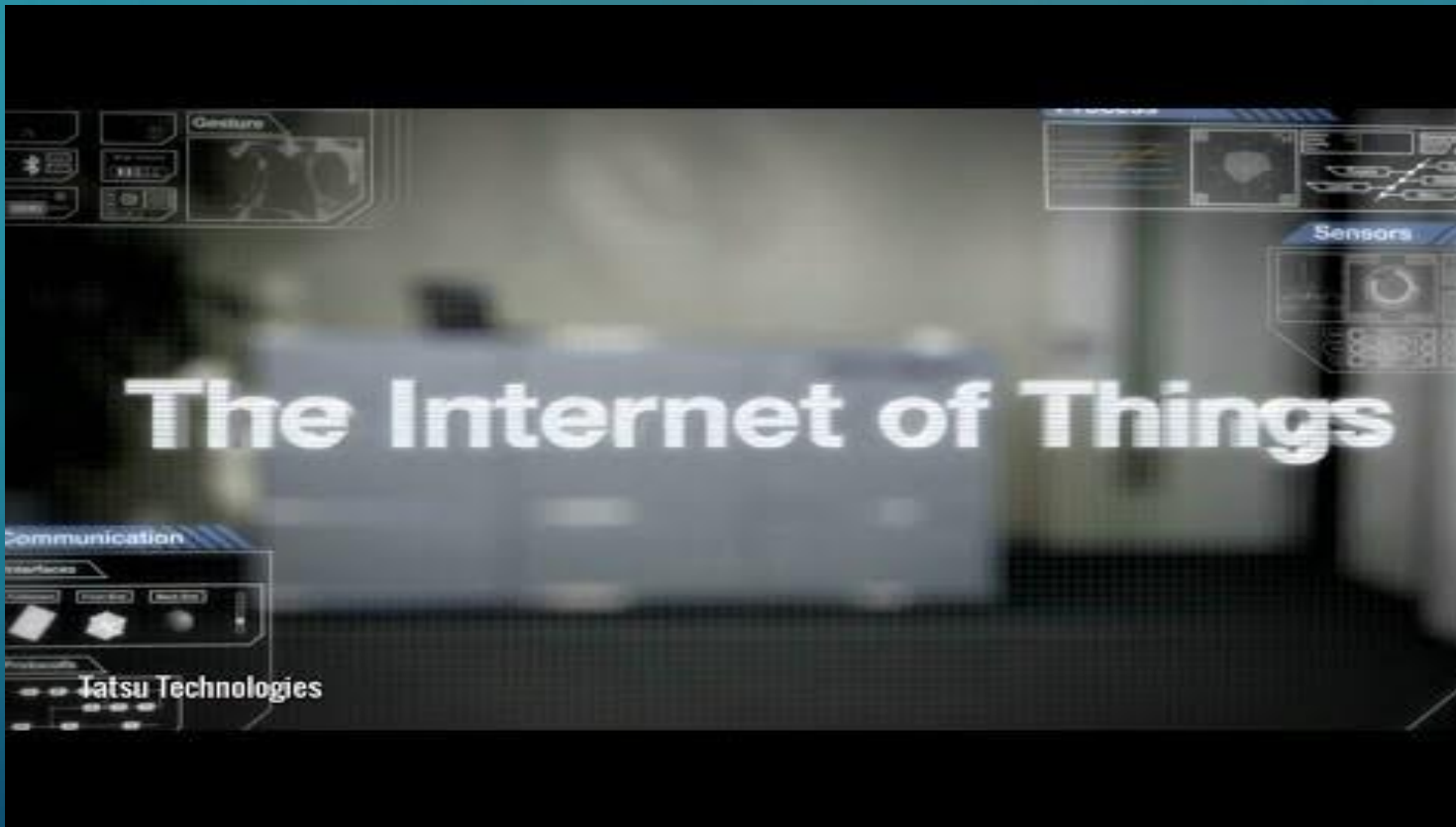
Please watch the following Video about IoT in daily life.
Please take some notes!



2.1 Task



TASK

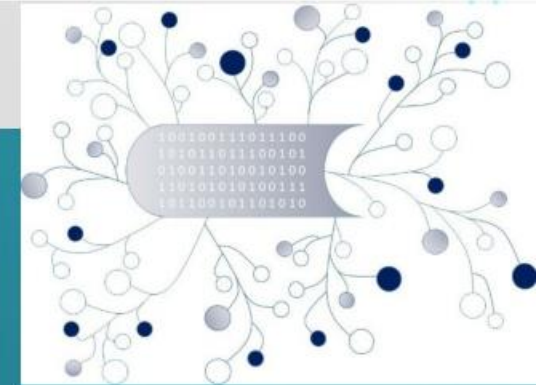


https://www.youtube.com/watch?v=ZrXpv4PAFZk&feature=emb_logo

2.2 Task

Please think of IoT in a critical perspective!

1. What could be negative impacts of IoT in daily life?
2. What means data security and protection of personal rights in this context?
3. Please take some notes and create a mind map!

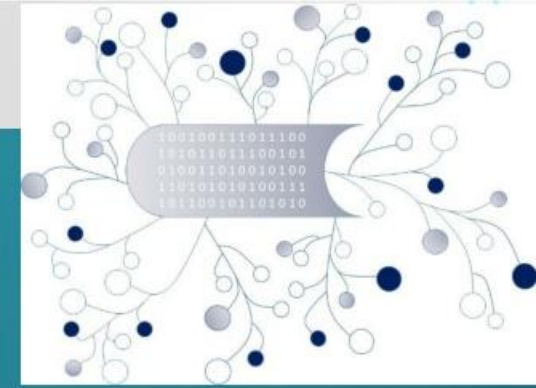


Agenda of Module A: Digitisation Terms and history

- Manyika, J. et al. (2015): "The Internet of Things: Mapping the Value Beyond the Hype," McKinsey Global Institute.
- Patel, K.; Patel, S. (2016): International Journal of Engineering Science and Computing, May 2016. Internet of Things-IOT: Definition, Characteristics, Architecture, Enabling Technologies, Application & Future Challenge. Link: file:///C:/Users/jsc/Documents/Lehrstuhl/Digi-VET/Intellectual%20Outputs/IO4/Recherche_Modules/2016_IoT.pdf
- <https://www.ida.gov.sg/~media/Files/Infocomm%20Landscape/Technology/TechnologyRoadmap/InternetOfThings.pdf>
- <http://tblocks.com/internet-of-things>
- <https://www.forbes.com/sites/bernardmarr/2018/09/12/19-astonishing-quotes-about-the-internet-of-things-everyone-should-read/#4b82d98ce1db>

YouTube:

- <https://www.youtube.com/watch?v=crDyC6Xeqs>
- https://www.youtube.com/watch?v=ZrXpv4PAFZk&feature=emb_logo
- <https://www.youtube.com/watch?v=v2kV6pgJxuo>



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