Futures Studies

> 淡江大學教育與未來設計學系 Department of Education and Futures Design Tamkang University





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How is Our World Changing with Technology & Innovation



IMPACTS OF TECHNOLOGICAL INNOVATION



MEDIA & INFORMATION

VOLUME

AM	540	600	700	800	1000	200 1400 1600	KHZ
AM	00	91	94	97	100	103 106 108	WHZ
FM		1/10	152	156	161 🐳	167 171 174	N NZ
VHFIL	144	140	35	38	42	46 50	8.82
VHFu	30	32			40	500 512	1912
UHF	450	460	470	480	40	122 135	W 22
STATE of	108	112	116	12	2	102 102	

SQUELCH



REALISTIC





After





COMMUNICATION

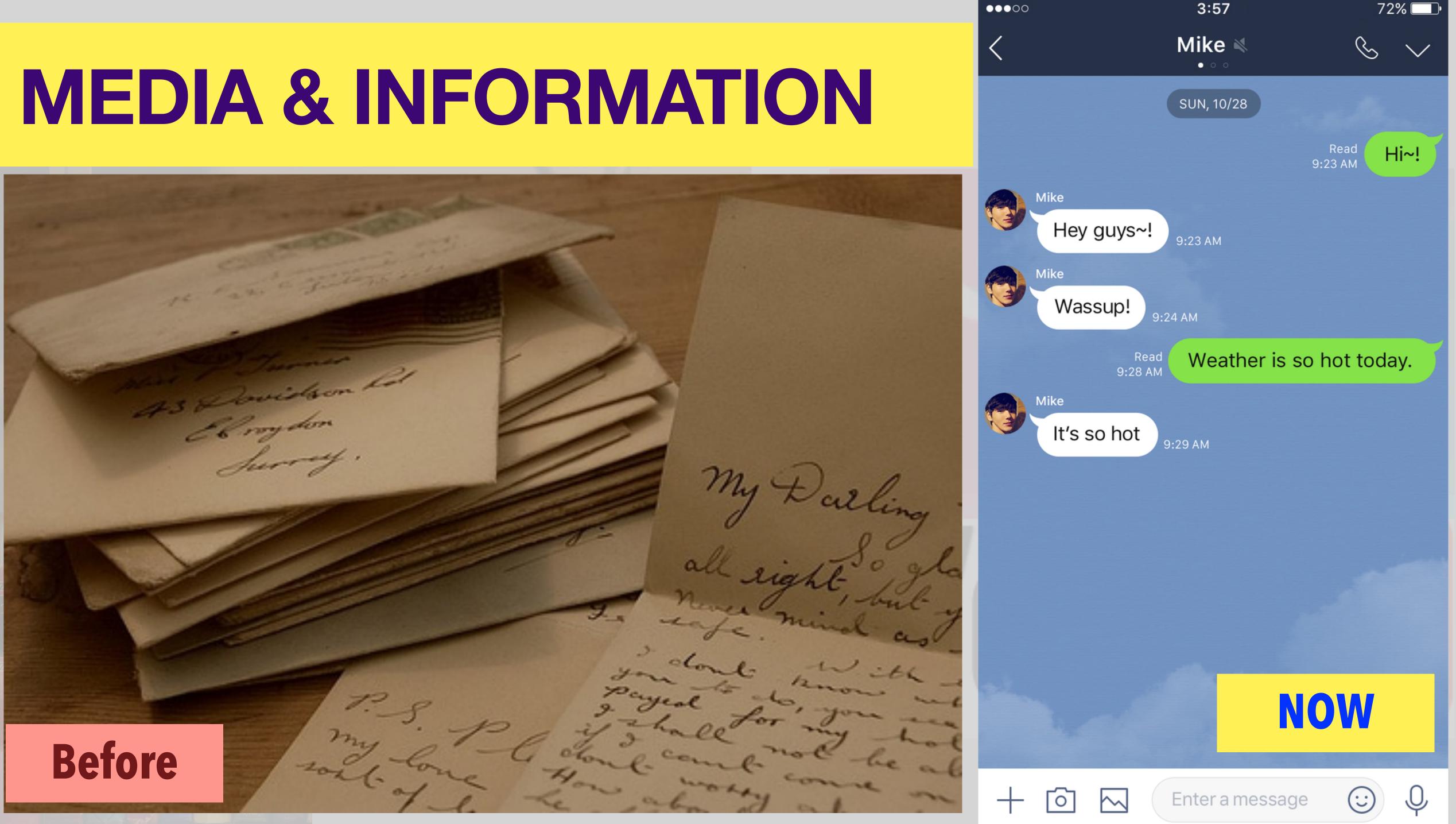


in 1876









HOW DO THESE CHANGE AFFECT US?

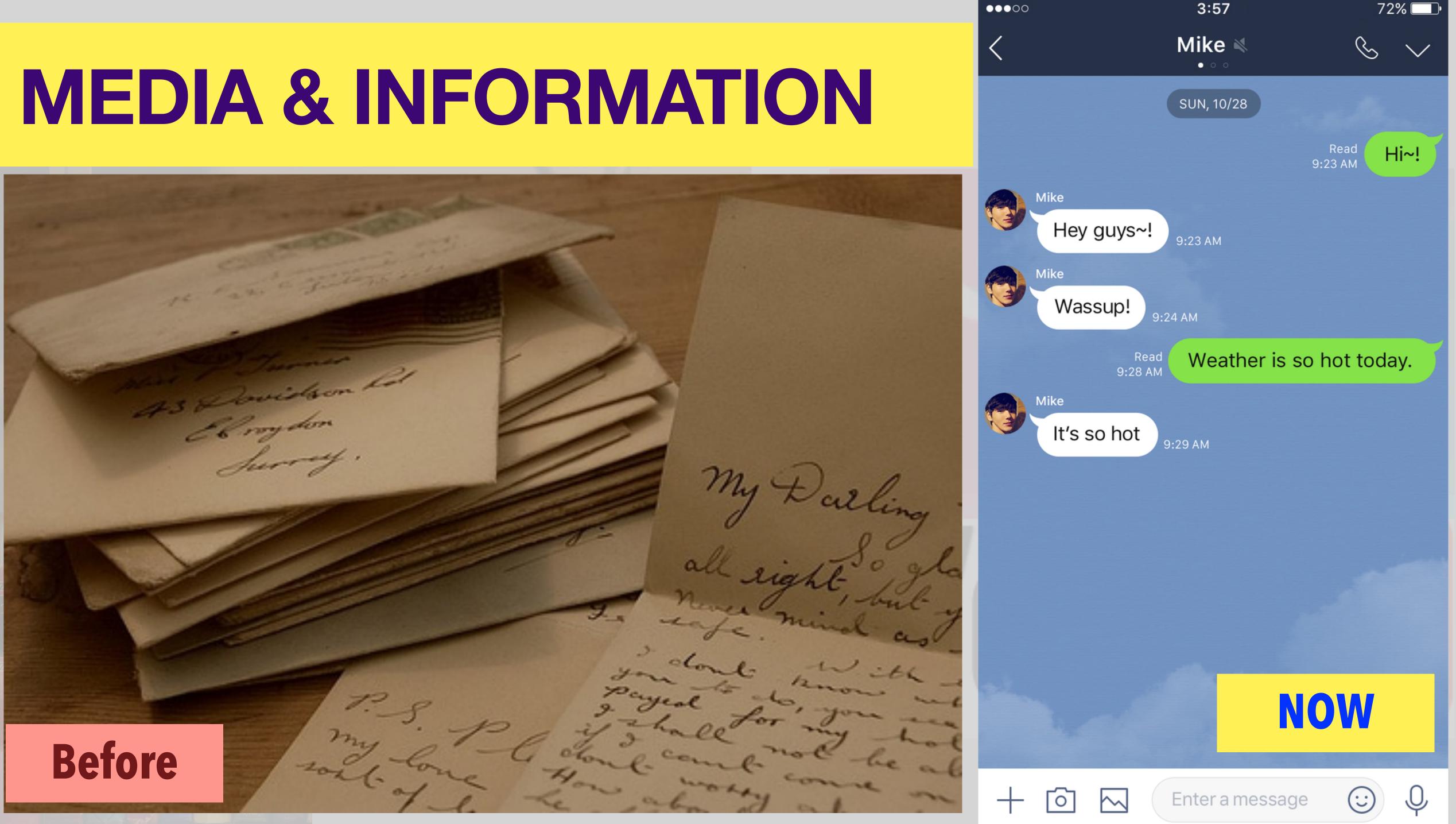
这些变化如何影响我们





IMPACTS OF TECHNOLOGICAL INNOVATION





Texting, not talking

[impact 1]

We texts our friends always and not talk or meet

[impact 4]



[impact 2]

[impact 3]

[impact 5]

Texting, not talking

1st order impacts - what do we feel immediately

It's more convenient and get to our friends faster

> We texts our friends always and not talk or meet

We don't know the 'real' person from texts, people can pretend to be happy when they are not



Expect our friends to respond immediately

We don't know the real emotions of the person from texts

We feel awkward meeting or talking to people in person

FUTURES WHEEL

1ST ORDER IMPACTS -THE EFFECTS WE FEEL IMMEDIATELY

2nd order impacts

What are the consequences of the 1st order impacts after a few months or **1,2 or 3 years?**

2nd order [impact 1]

[impact 1]

2nd order [impact 2]

[impact 4]

2nd order [impact 2]



[impact 2]

[impact 3]

We texts our friends always and not talk or meet

[impact 5]

2nd order [impact 2]

We feel awkward meeting or talking to people in person

We don't know how to socialise in person, feel awkward and anxious in public - society becomes more and more alone

We don't know the 'real' person from texts, people can pretend to be happy when they are not



We are connected 24/7, over-whelmed with having too much to deal with - stress and mental health

Expect our friends to respond immediately

We texts our friends always and not talk or meet

It's more convenient and get to our friends faster

We don't know how the person feel from texts, we can't see facial emotions

FUTURES WHEEL

2ND ORDER IMPACTS -THE CONSEQUENCES OF THOSE 1ST ORDER EFFECTS WE FELT

ACTIVITY 1

THE IMPACTS AND IMPLICATIONS OF TECHNOLOGY

Work in Group

Step 1: Think about the immediate impacts of a tech issue

Step 2: Think about the consequences of those 1st order impacts

A piece of poster

A bag of writing materials





Spent too much time playing games on the computer

花太多时间在电脑上玩游戏

Think of the immediate effects that we feel from spending too much time playing games on the computer

Eyes are strained and tired from staring at the screen for too long

> Spent too much time playing games on the computer

[impact 4]



[impact 2]

[impact 3]

[impact 5]

2nd order impacts

2nd order [impact 1]

[impact 1]

2nd order [impact 2]

[impact 4]

We texts our friends always and not talk or meet

2nd order [impact 2]



[impact 3]

[impact 5]

2nd order [impact 2]



CHANGE

INPACTS OF CHANGE

Consequences of Change



Thinking About the

There Are More Than One Future

The Future* Is Pural

Possible, Alternative Futures



