## Tide and convert channels

information dolynot recessarily leak through Communication channel

Tiple channels allow information leabage through uninterded channels outside mai information channel

a govert chamelis a side champel which is controlled for one is orun purposes

## From Side to Covert channels

- In a Side Channel, you do not have control over the acquired information
- You act as a passive party, simply acquiring information and using it to extract valuable knowledge
- When someone can have control over a side channel, and use it, this become a <u>Covert Channel</u>
- Covert channels can be used both for benign and malicious purposes
- Exfiltrating information
- Communicating despite the adversary
- Communicating with other devices

Clectromagnetic enanctions

defensive vivuless RF channels

retwork traffic packet size, packet frequency

offensive

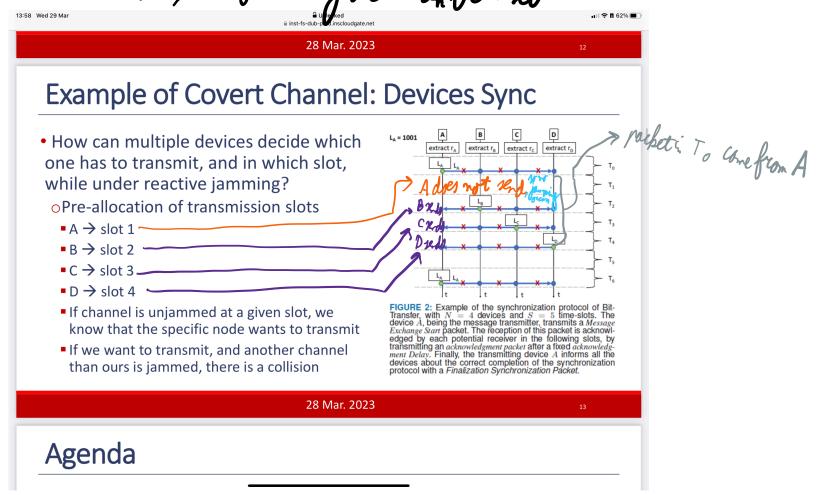
i.e. difficults

orthodoxite and

acoustic emanations

Onti-jamming solution (silence/send) = covert channel
from jamming lecture

to agree on time - Ilots, the followingides can be used



Wheless beyloweds one event -driven devices, which may leak inter-beystrake timing information

it can eve be done with a coustic information from e.g. a shype call