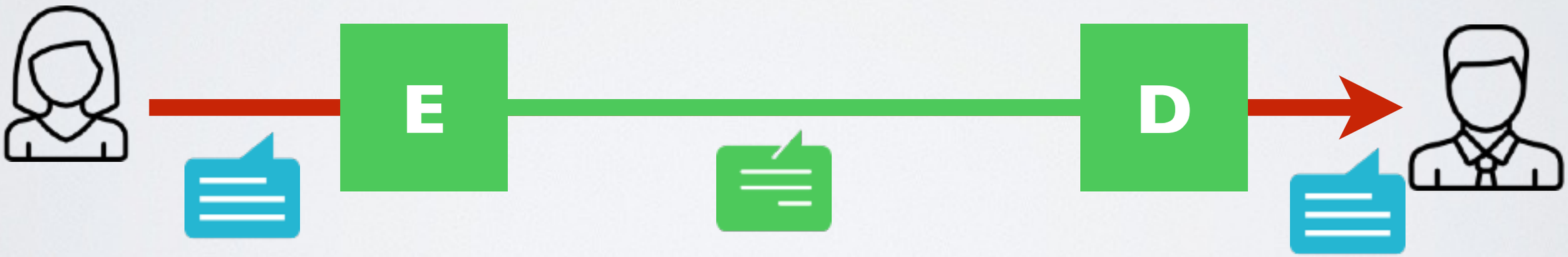
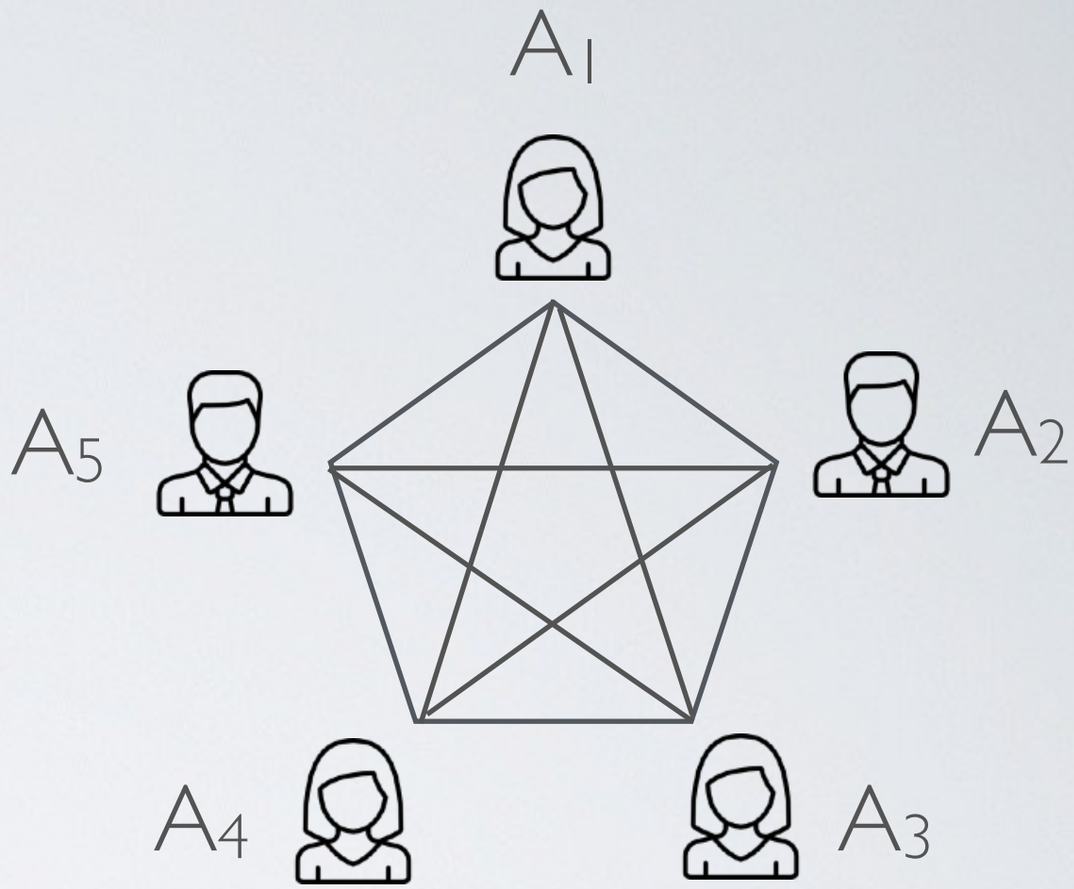
The big challenge with symmetric cryptosystems?

How do we **agree** on the  **?**



Naive Key Management



$A_1, A_2 \ldots A_5$ want to talk

➡ Each pair needs a key : **n (n-1) / 2** keys

◉ Keys must be exchanged physically using a secure channel