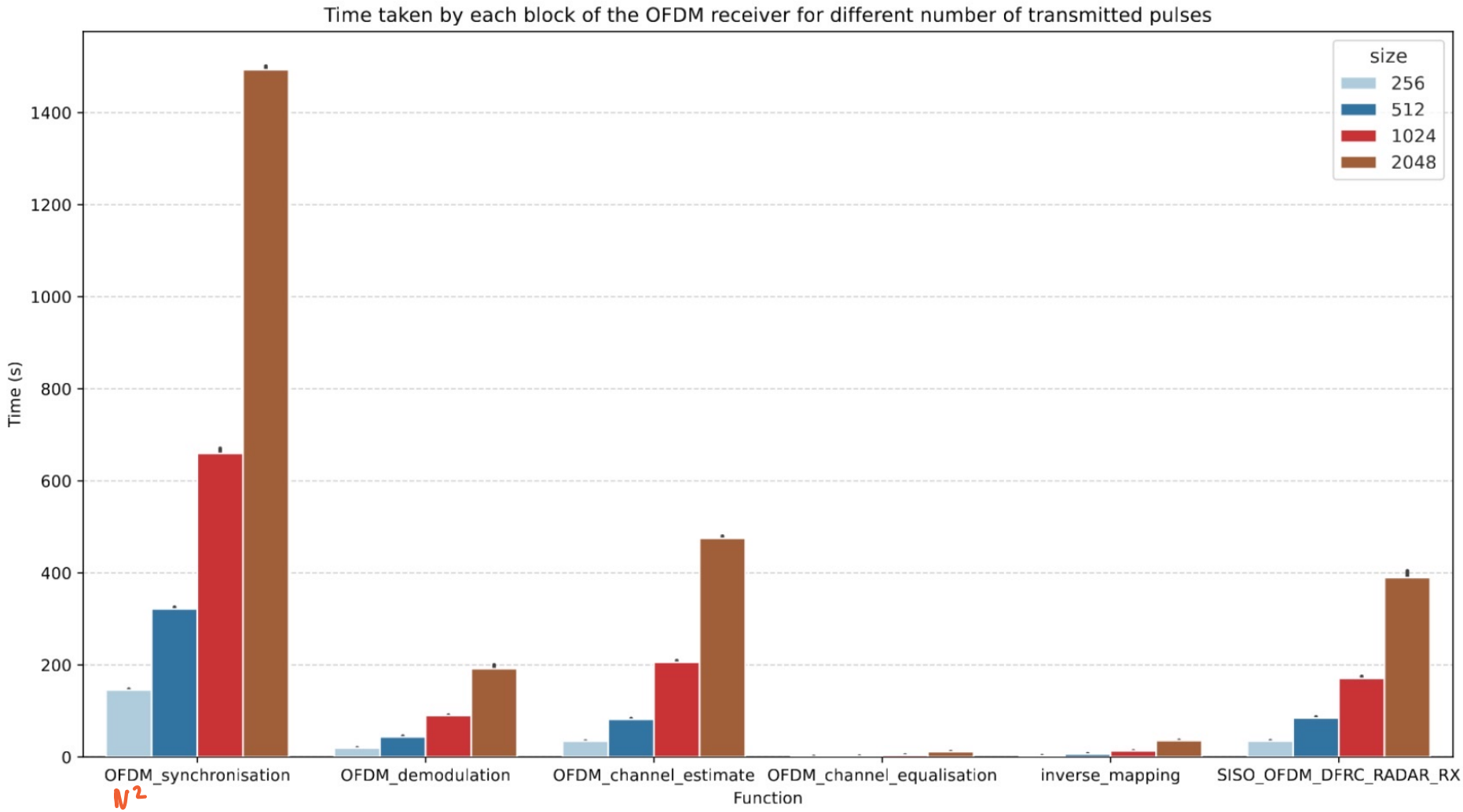
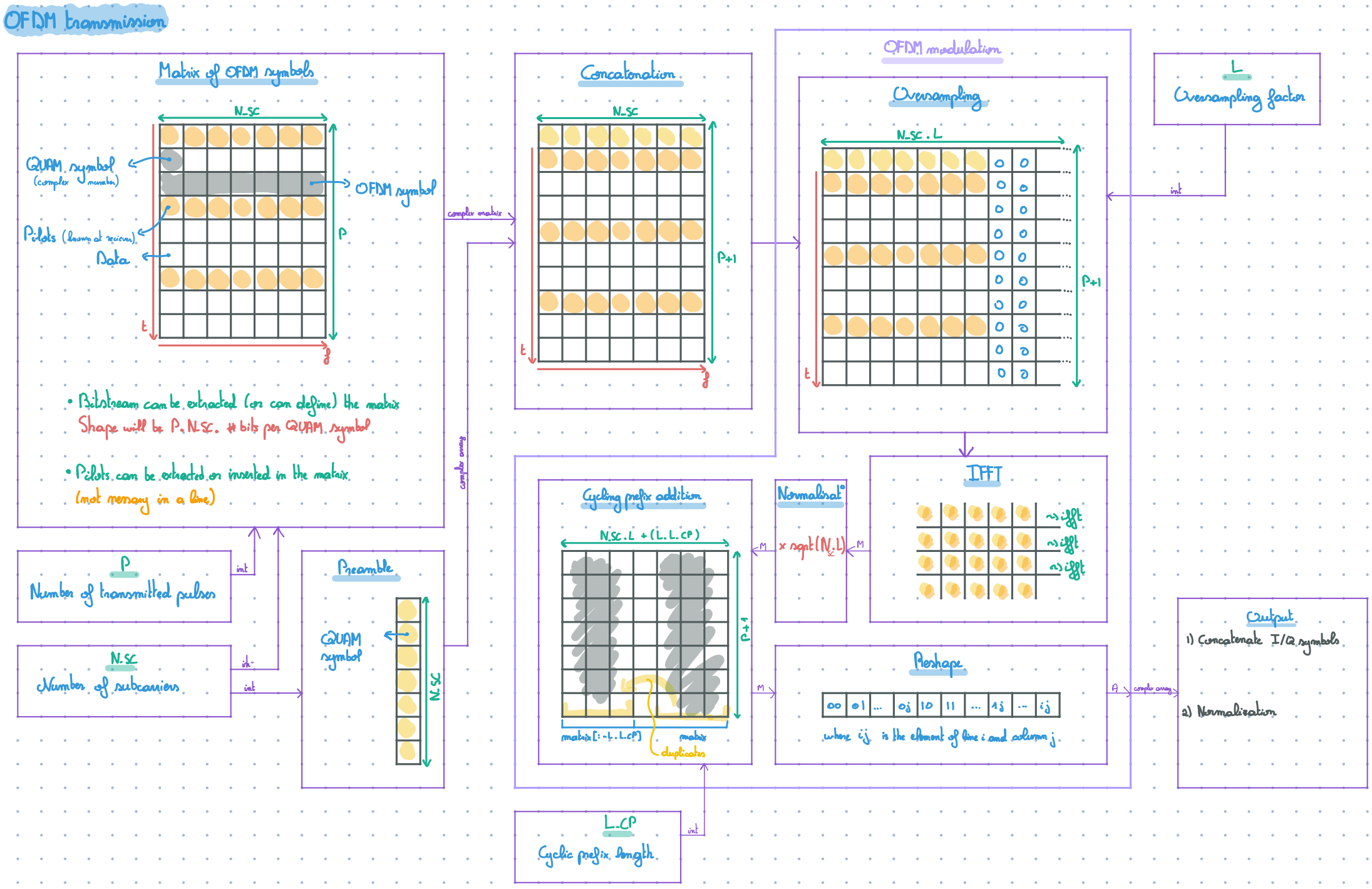
OFDM Chain in python script

1. Transmitter
2. Reciever
   - check radar

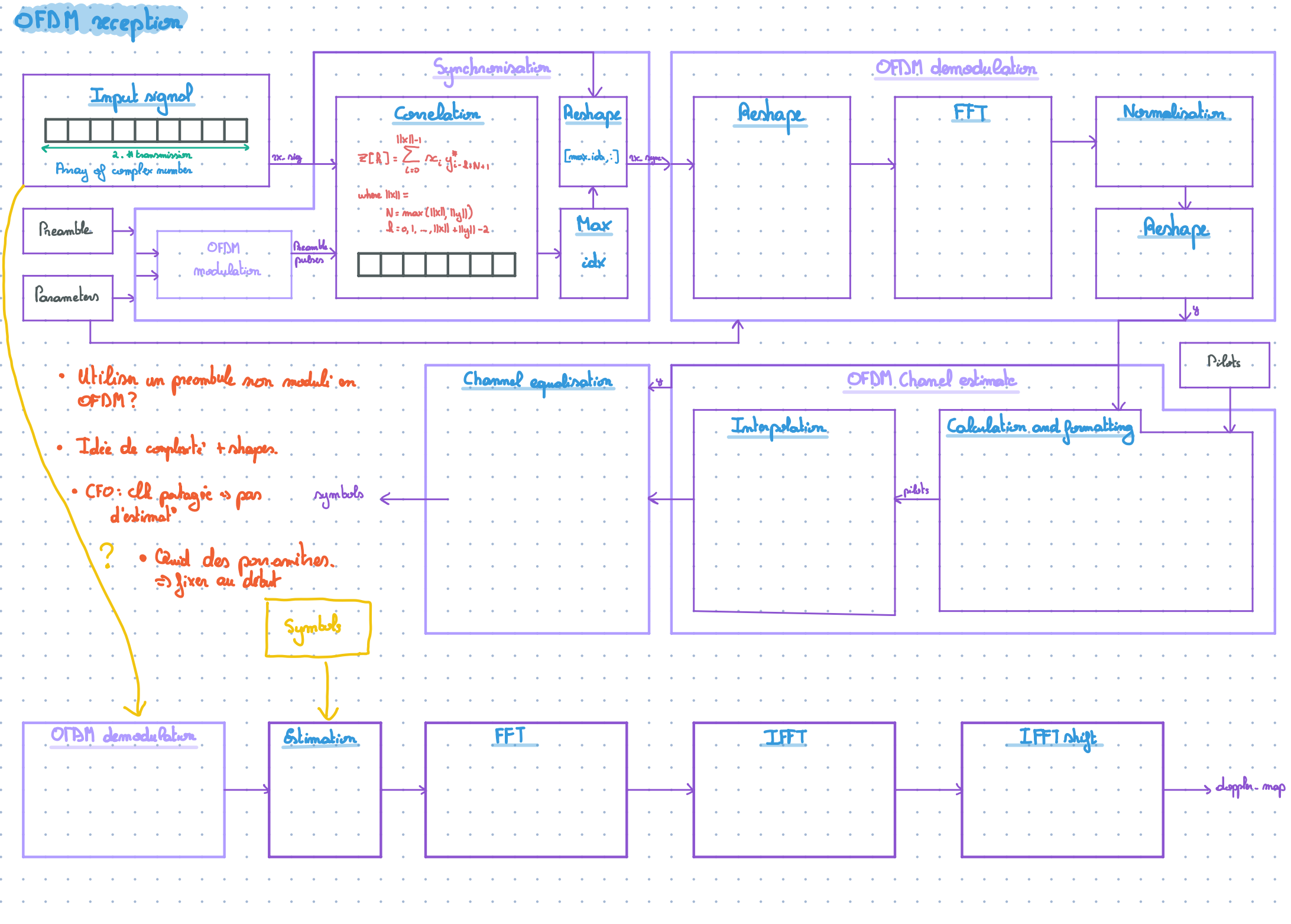


N^2

OFDM transmission



OFDM reception

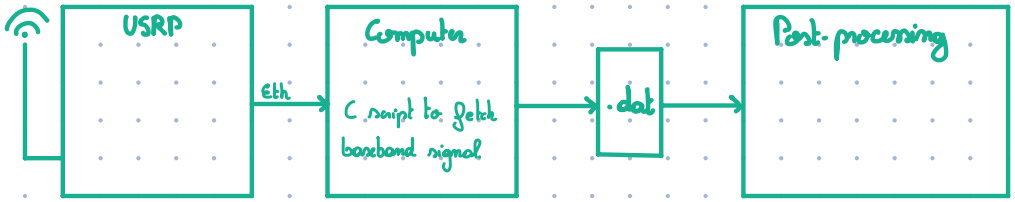


Adding FPGA in toolchain

- Some questions
  - ↝ how to program ? HDL or LabView ?
  - ↝ how to flash ?
  - ↝ how to communicate 1) signal ↝ FPGA 2) FPGA ↝ computer

- Current toolchain

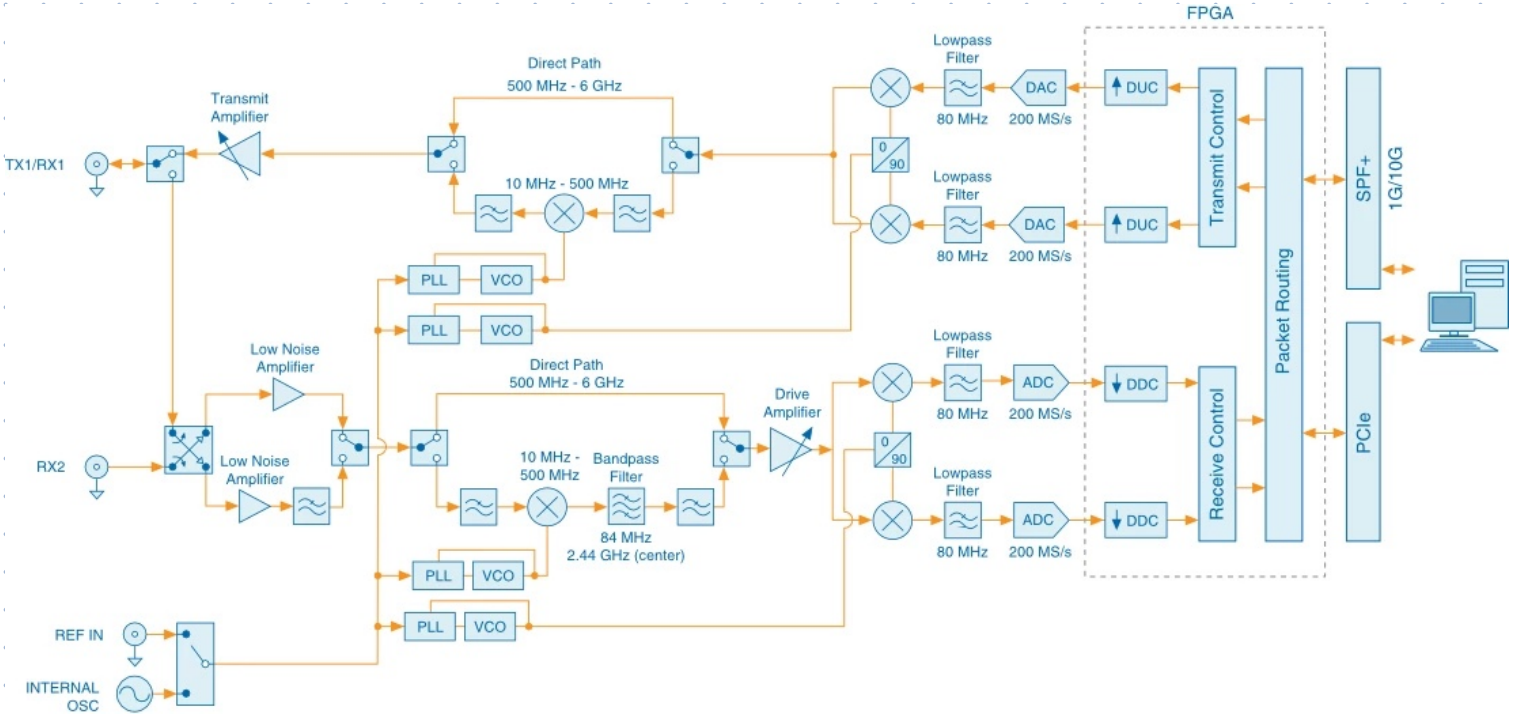
Step 1 Step 2



Code python:
↝ complexité et # opérations
↝ Shapes
↝

Différence implem en changeant python en C. ↝ Analyse

Blocs existent déjà. ↝ Pol a des blocs pour ça
Comment la synchronisation est faite

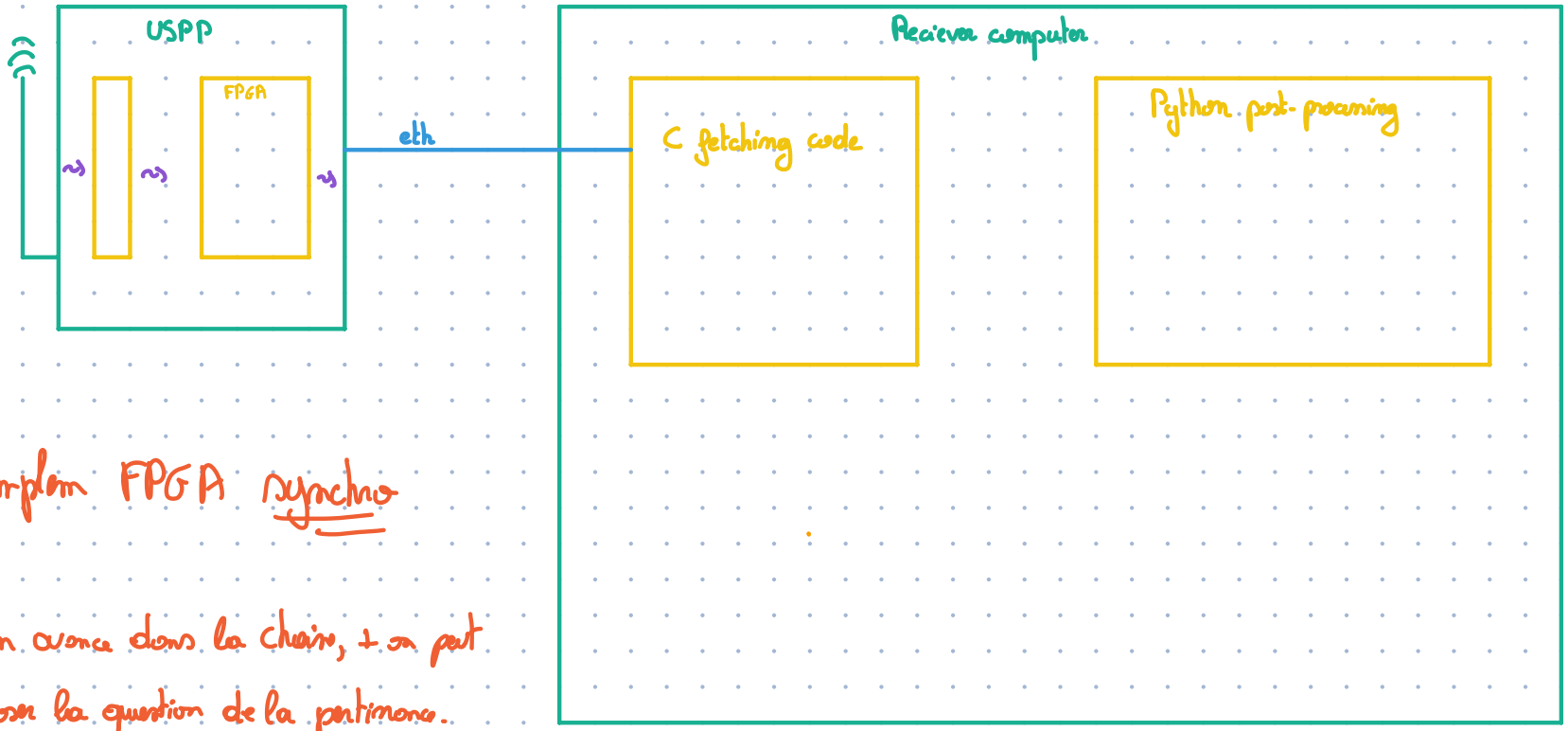


FPGA : ce que tu veux
DSP ? ↝ mapp
↳ processeur avec jeu spécifique.

- How / where to add FPGA ? Only use the one in USRP?

- high level synthesis. ~ code ⇒ FPGA

⇒ Lien notebook vers programm FPGA Ethus + NI.



Implem FPGA synchro

↑ on avance dans la chaine, ↓ on peut se poser la question de la pertinence de faire de l'Hardware.

Partage de temps

FPGA / Complexité

Jeudi 07/ 14h30 Tuning