

# Local Client



ResNet-101

$x$

Head color: white  
Belly color: white  
back color: black

$a_g$

SKA

Text encoder  
CLIP

$a_c$

$a_{SKA}$

$z_c \sim N(0, \gamma)$

$z \sim N(0, 1)$

$\hat{x}$

$\mathcal{L}_{CLS}$

$\mathcal{D}$

$\mathcal{L}_{WGAN}$

$\mathcal{G}$

①



Local Client #1

Local Client #n

Central Server

Head color  
Belly color  
back color

- data flow
- - -> weight update
- $\oplus$  element-wise sum
- $\otimes$  concat
- freeze model