3 Target network training 2 Generative knowledge aggregation **1** Warming-up common FE $\left\{\theta_i^f, \theta_{i,m=1}^h\right\}$ $G(z_i|y_i,\mathbf{W}_i)$ Client i Client i Client i Feature Generated generator features $\left\{\theta_{j}^{f},\theta_{j,m=2}^{h}\right\}$ $G(z_i|y_i,\mathbf{w}_j)$ Client j Client j Feature generator 437 962 Real $G(z_i|y_i,\mathbf{w}_g)$ Real samples samples Feature $\mathbf{w}_q \leftarrow \text{AGGREGATE}(\mathbf{w}_k)$ generator $\theta_q^f \leftarrow \text{AGGREGATE}(\theta_k^f)$ Model-agnostic FL with feature-generative models

Client j

Generated

features