

L-smoothness

$$\leq F_i(\mathbf{x}_i^{(t,k)}) + \langle \nabla F_i(\mathbf{x}_i^{(t,k)}), \bar{\mathbf{x}}^{(t,k+1)} - \mathbf{x}_i^{(t,k)} \rangle + \frac{L}{2} \|\bar{\mathbf{x}}^{(t,k+1)} - \mathbf{x}_i^{(t,k)}\|^2$$

