| Step | Description | Time | Messages |
|--------|---|-------------------------|-----------------------------|
| ??,?? | BFS convergecast | O(D) | O(m) |
| ??, ?? | BFS upcast of f messages | O(D+f) | $O(f \cdot D)$ |
| ??,?? | Local computation | 0 | none |
| ?? | BFS downcast of f messages (each of size $\log^2 n$) | $O(D + f \cdot \log n)$ | $O(f \cdot \log n \cdot D)$ |
| ?? | Broadcast in each of the MST fragments | $O(k + \log n)$ | $O(n \cdot \log n)$ |
| ?? | Communication between neighbors | $O(\log n)$ | $O(\log n \cdot m)$ |