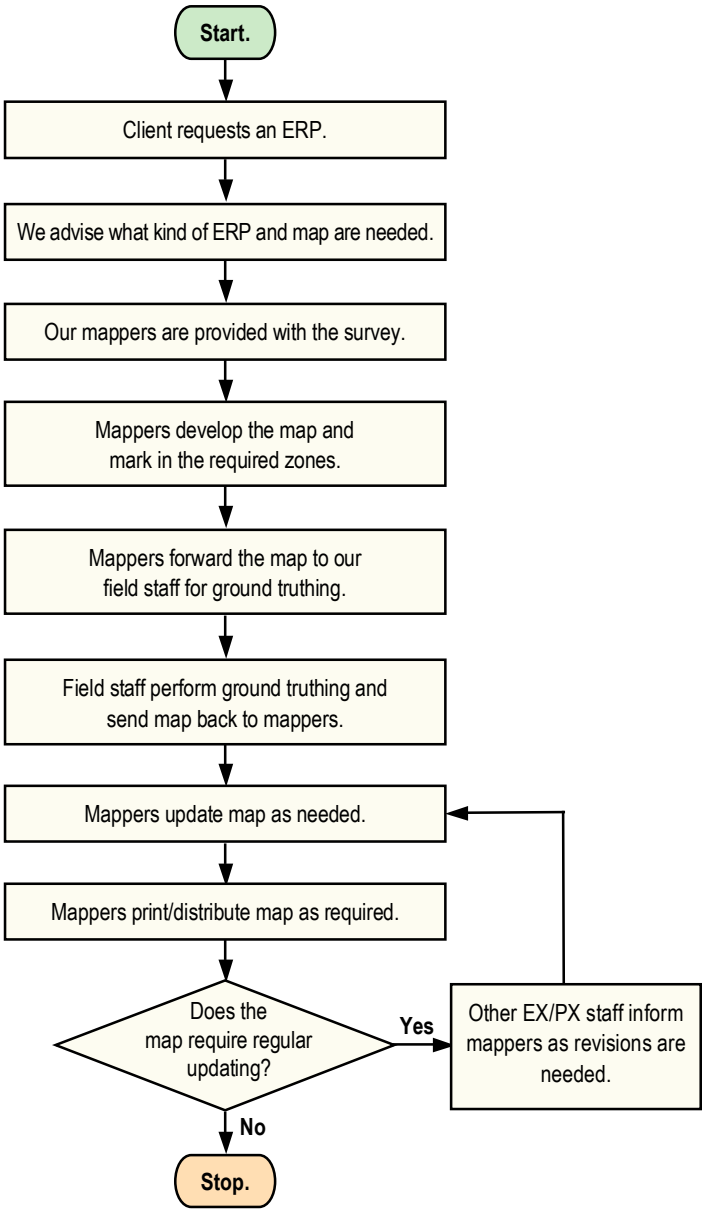Mapping Process