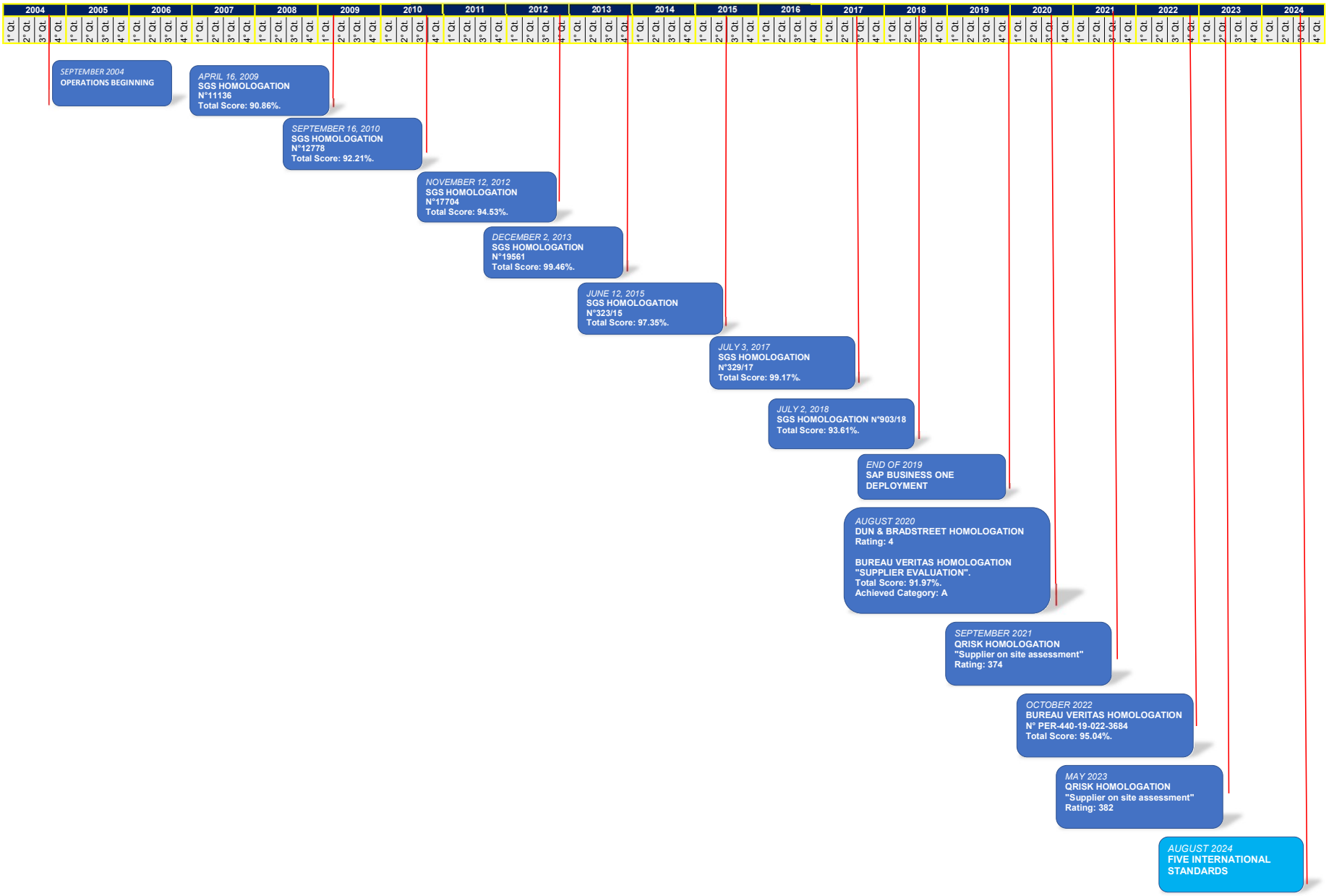HOMOLOGATIONS