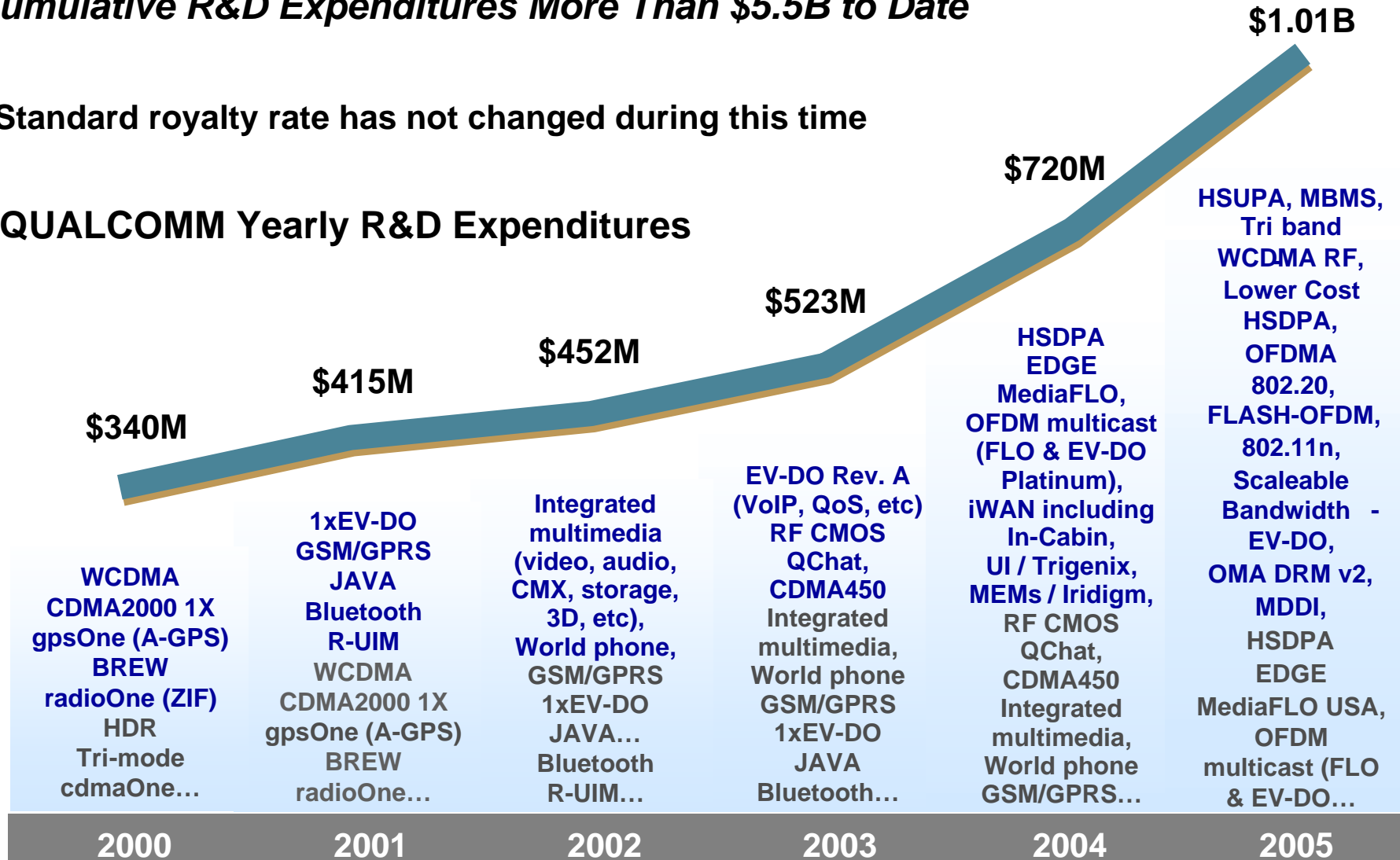


# Aggressive Investment in a Complete Technology Roadmap

*Cumulative R&D Expenditures More Than \$5.5B to Date*

Standard royalty rate has not changed during this time

## QUALCOMM Yearly R&D Expenditures



Technologies listed for each year are based on initial press releases. R&D typically began substantially earlier.<sup>14</sup>