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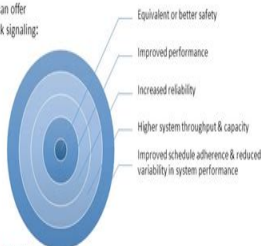
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## Why Communications Based Train Control (CBTC) and Positive Train Control (PTC)?

- Traditional systems in North America have been based on block signaling systems designed 30-100 years ago
- Technology for ETCS (European Train Control System functionally similar to PTC) has been available since the 1990's in Europe
- CBTC technology was first deployed in Asia in the early 2000's
- CBTC and PTC systems can offer improvements over block signaling:



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