Modernized Signal Evolution

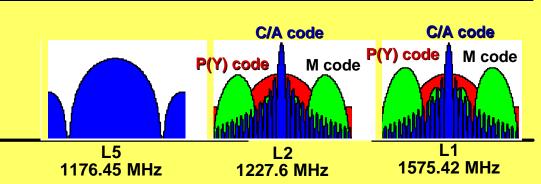
Present Signals



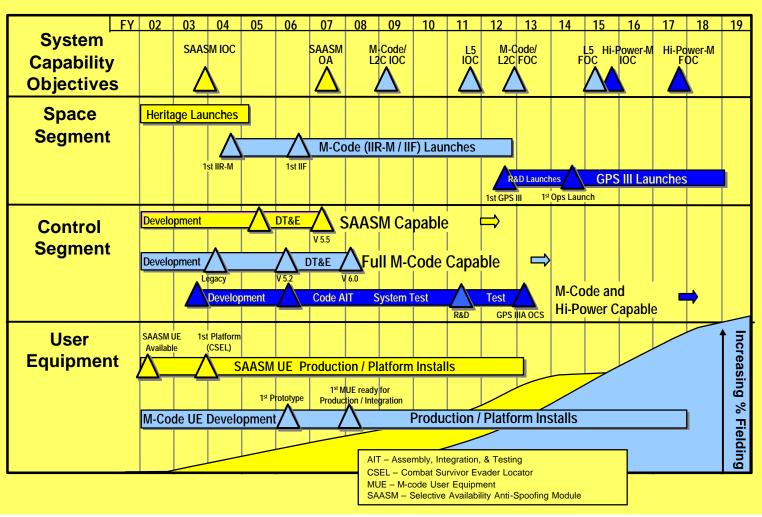
2nd Civil & New Military Signals

C/A code
P(Y) code
M code
M code

3rd Civil Signal



GPS Enterprise Perspective Schedule



GPS IIA, IIR, IIR-M Description

Pre Modernization

- Heritage Signals
 - -L1, C/A
 - -L1, L2 P(Y)
- Design Life
 - -10 Years
- 3 Rubidium Clocks
- IIR Satellites 1-13



Post Modernization

- Modernized Signals
 - L1 C/A, L2C,
 - L1, L2 P(Y)
 - L1, L2 M-Code
 - Flex Power
- Design Life
 - 10 Years
- 3 Rubidium Clocks
- IIR-M Satellites 14-21

EARLY IMPROVED SECURITY & ANTI-JAM

GPS IIF Description

Pre Modernization

- Heritage Signals
 - -L1, L2 C/A
 - -L1, L2 P(Y)
- Design Life
 - -15 Years
- 1 Rubidium and
 3 Cesium Clocks
- 33 Satellite Production Run



Post Modernization

- Modernized Signals
 - L1 C/A, L2C
 - L1, L2 P(Y)
 - L1, L2 M-Code
 - L5 New Civil Signal
 - Flex Power
- Design Life
 - 12 Years
- 2 Rubidium and1 Cesium Clocks
- 12-16 Satellite Production Run

IMPROVED ACCURACY, SECURITY & ANTI-JAM

GPS III Description

