

**Update: Locomotive Investment Strategy Short and Mid-Term Options** 

June 5, 2017



## **Overview**

- 1. Current Locomotive Fleet
- 2. Mid-term Fleet Plan
- 3. Estimated Budget



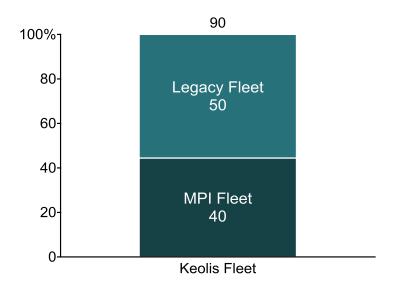
# **Current Locomotive Fleet**

 Keolis is responsible for maintaining/operating 90 locomotives

Fleet breakdown:

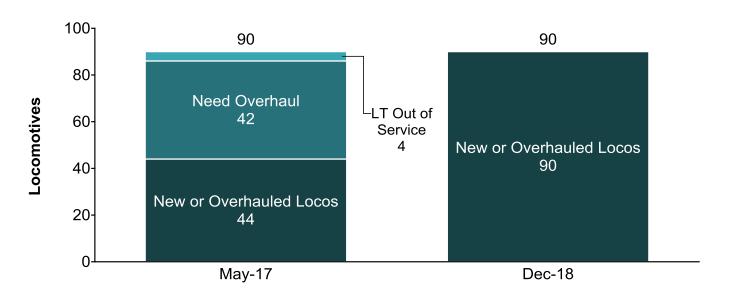
50 = Legacy fleet;

40 = MPI fleet





## **Mid-Term Fleet Evolution**



- As of now, over half the locomotive fleet is in need of repairs or overhaul.
- The mid-term fleet strategy should get us to 90 new or overhauled locomotives by December 2018.



## **Mid-Term Fleet Plan**

The plan consists of locomotive repair and overhaul programs designed to keep the legacy fleet operating reliably for approximately six more years.

### **Programs Underway:**

- Short-term recovery program
- UTEX Phase I
- UTEX Phase II
- F-40 Overhaul
- GP-40 Overhaul
- MP-36 Top Deck Overhaul

### Potential Additional Initiatives:

UTEX Phase III





# **Short-Term Locomotive Recovery Program**

- 5 legacy locomotives
- 3 have returned to service
- 4th expected back mid-June;
  5th TBD
- Estimated Cost: \$500k for all repairs
- Goal is return to service; these repairs do not extend useful life







# **UTEX Program**

### Phase I:

- 5 locomotives
- One loco per month starting Apr. 2017
  (2 completed and back in service)
- Cost: \$6 million (\$1.2 million per loco)
- Extends service life 6 years

#### **Phase II:**

- Another 5 locomotives
- One loco per month starting Sept. 2017

### Phase III:

- Under consideration
- Up to 8 more locos starting Feb. 2018







## **MBTA Overhaul of 10 F-40 Locomotives**

- Procurement to overhaul 10 F-40 locomotives; proposals were due 5/12/17
- 5 from the operating fleet; 5 inactive
- First loco expected back Mar. 2018, then one per month through Dec. 2018
- Estimated cost: \$30 million for 10
- Extends service life by 20 years





## MBTA GP-40 and MP-36 Overhauls

## **GP-40 Overhaul**

- 4 locomotives will be advertised and sent off property for overhaul.
- One from the active operating fleet;
  3 are inactive
- First loco expected back Jun. 2018; program complete by Dec. 2018
- Estimated cost: \$6 million for 4
- Extends service life by 20 years

### MP-36 Top Deck Overhaul

- 2 locomotives will be advertised and sent off property for overhaul.
- Both from the active operating fleet
- Expected back in service Mar. 2018
- Estimated Cost: \$1 million for 2
- Extends service life by 10 years



# **Engine Procurement**

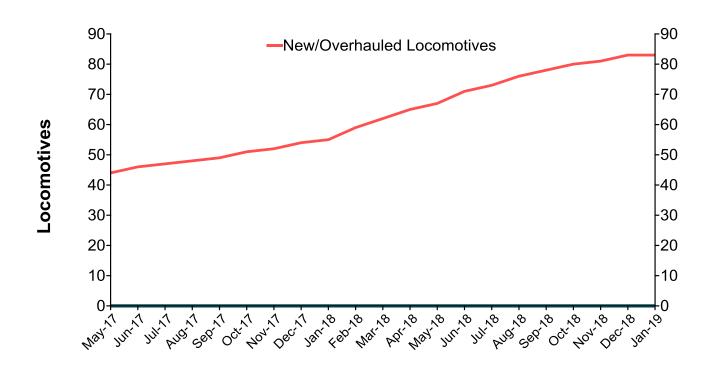
 15 engines with options for 10; will be advertised mid-June 2017

- Will supply engines for UTEX and overhaul programs and make spares available
- Estimated cost: \$4.5 million for 15 (\$300k per engine)
- Expected useful life of 20 years (including scheduled overhauls)





# **New/Overhauled Locomotive Availability**



- As of today, we have 44 new or overhauled locomotives in the fleet.
- With the planned locomotive repair and overhaul programs, we will be at 83 by December 2018.



# **Estimated Budget for Mid-Term Programs**

- UTEX Phase II: \$6M
- F40 Overhaul: \$30M
- GP40 Overhaul: \$6M
- MP-36 Top-Deck: \$1M
- UTEX Phase III: \$9.6M
- Engine Procurement: \$4.5M\*

<sup>\*</sup>Engines will be used to support programs above.

