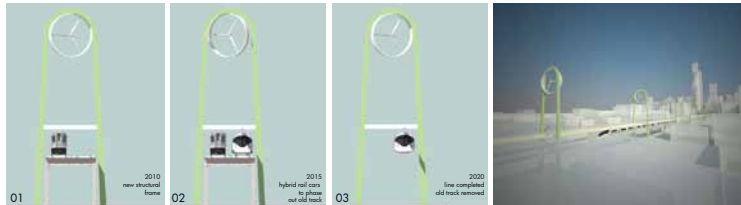




existing  
 since 1992 - 2008  
 noise levels 10 to 15 dBA  
 no sustainable power system  
 federal standard for rail car life - 25 years  
 fleet average age is 24 years  
 28% of fleet (336 cars) exceeds 25 years



## Chicago Transit Authority Provocation

### High Performance Goals:

- Reduced noise pollution transportation system
- Allows more daylight to reach the street level
- Generates electricity from climatic conditions
- Utilizes air rights, land area, and geographic position

The transformation of heavy rail and (air) rights requires efficiency, resourcefulness, and new technologies. To improve our mass transit systems, we have examined replacing a 19th century structural system, expensive to maintain and entirely inappropriate for its use, with a new system that is not only silent, but utilizes the climatic conditions for energy,

Through the combination of mass transit with energy generation and conservation one can create visible sustainability.

Chicago, a city where the ideological mantra has been "less is more", should recognize an innovative past with another mantra to do "more with less". The elevated heavy rail system carries with it an enormous opportunity. An opportunity to take advantage of its air rights, land area and geographic position. Two simple ways to achieve societal gain through an infrastructural initiative are by providing more light to the ground below and taking climatic advantage to generate electricity.

