

Ethiopian Airlines as a System – it has been ranked among one of the top airlines in our continent also globally, has received a lot of awards. We can take this airline as a system by breaking down its components and function into the nine characteristics that describe a system.

The airlines as a system can be described by the nine characteristics listed below: -

- **Components:**
 - * Airplanes – for transporting passengers and cargos.
 - * Buildings – where the passengers check in get different services.
 - * Vehicles – for different movement within the system.
 - * Employees – the important part of the system that facilitate and perform tasks.
- **Interrelated Components:**
 - * Airplanes-Captains – without the captains we can not think about airplanes because they operate them
- **Boundary:**
 - * Addis Ababa around Bole area (main airport) – its boundary is within this area it can't operate outside of its boundary
- **Purpose:**
 - * To transport people and different cargos from one place to another.
- **Environment:** Hotels, Restaurants, Cafes, Lounges around Bole area
- **Interface:** there multiple paths to reach this system some of them are listed below
 - * Ring Road, Airport Road, Ethio-China street, Meskel Square, Bole Homes Road.... etc
- **Inputs:**
 - * Passengers – transport them from one place to another
 - * Cargos – carry cargos from one part of the world to its destination
 - * Number of planes
- **Outputs:**
 - * Revenue – as it gives service to customers it generates revenue as an output.
 - * Passenger-miles – a mile traveled by a passenger with this system.
 - * Number of passengers – the passengers the system transported
 - * Number of departures – the amount of flight that the system completed
- **Constraints:**
 - * Risky in case of accident – in worst case scenarios passengers may die, also cargos may destruct.
 - * High cost – to travel with this system it has higher cost when compared to other systems
 - * Enormous investments – it requires a high amount of capital to start working with this system.