



DB International Operations

Early Operations Model for Indian Second Tier Cities
November 2019 – Urban Mobility Conference India

Current dynamics of urban mobility in India



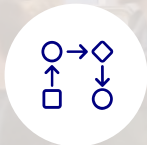
Rising number of **private cars and motorised two-wheelers**



Decreasing share of public transport in medium sized cities

Photo: [Aleksandr Zykov](#)

Need for ecologically, economically and socially sustainable mobility systems



Lack of public transport systems, that are convenient and appealing

New public transport projects involve many risks and challenges



New infrastructure projects are very complex and risky



Decisions taken in the early project phases heavily influence the long-term success of operations



Multiple stakeholders with various interests and incentives



Aim to take over operations by Authority, but often no past track record



Goals of the Early Operator approach

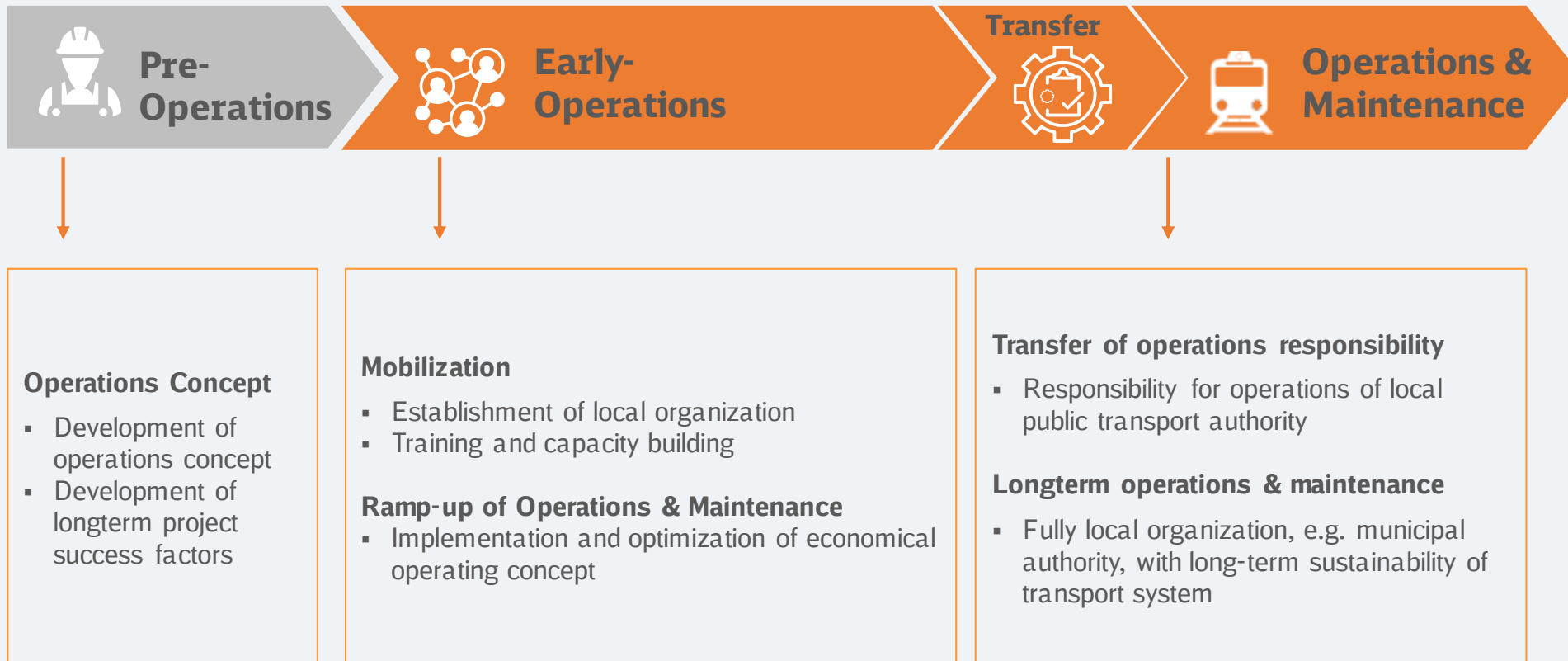


SYSTEM READINESS

OPERATIONAL READINESS

SUSTAINABLE OPERATIONS

Early operations approach



- 1. System Delivery:** Advise, support and influence all phases of the System
- 2. Operational Readiness:** Develop all Deliverables required for Revenue Service
- 3. Sustainable Operations:** Develop local capacity and long term commercial viability of the system

In cooperation with **California High Speed Authority**, DB IO is engaged as the **Early Operator**

- **Fare integration and inter-operability** between transportation operators connecting with or to the System
- **Security and safety arrangements** for the system; operations control systems including dispatching responsibilities
- **Service planning** and scheduling for both the System and connecting buses
- **Opportunities to maximize system revenue and ancillary revenue opportunities**
- **Ridership and passenger revenue forecasting** as well as O&M cost forecasting
- **Mobilisation of operations** incl. recruitment and training
- **Optimization of whole life, capital and life cycle costs** associated with Rolling Stock, Track and Systems and Stations
- **Local public transport culture initiatives** incl. outreach and marketing strategy
- **Risk management**



The Early Operations Model **provides many benefits**

An early operator contributes...

- ✓ knowledge about how to **assess a new project** and its quality in all dimensions – costs, benefit, performance/KPIs, etc.
- ✓ **experience** of many highly complex, international infrastructure projects, mainly with multiple stakeholders
- ✓ not only a consulting view but looks also at the client's **long-term success** of railway projects
- ✓ to make the **local Authority** able to run the railway O&M at its own including an seamless hand-over process
- ✓ Know-how to **save money** regarding CAPEX and OPEX





Thank you for your attention