

A bicycle-sharing system, bike share program, public bicycle scheme, or public bike share (PBS) scheme, is a shared transport service where bicycles are available for shared use by individuals at low cost.

The programmes themselves include both docking and dockless systems, where docking systems allow users to rent a bike from a dock, i.e., a technology-enabled bicycle rack and return at another node or dock within the system – and dockless systems, which offer a node-free system relying on smart technology. In either format, systems may incorporate smartphone web mapping to locate available bikes and docks. In July 2020, Google Maps began including bike share systems in its route recommendations.

With its antecedents in grassroots mid-1960s efforts; by 2022, approximately 3,000 cities worldwide offer bike-sharing systems, e.g., Dubai, New York, Paris, Montreal and Barcelona.

In the present book, fifteen typical literatures about Shared Bicycle published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Shared Bicycle. We hope this book can demonstrate advances in Shared Bicycle as well as give references to the researchers, students and other related people.¹

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¹ https://en.wikipedia.org/wiki/Bicycle-sharing_system