



BrT - BREEZE THRU

A Toll management Solution

Sark Mobile Solutions, Bangalore

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OVERVIEW

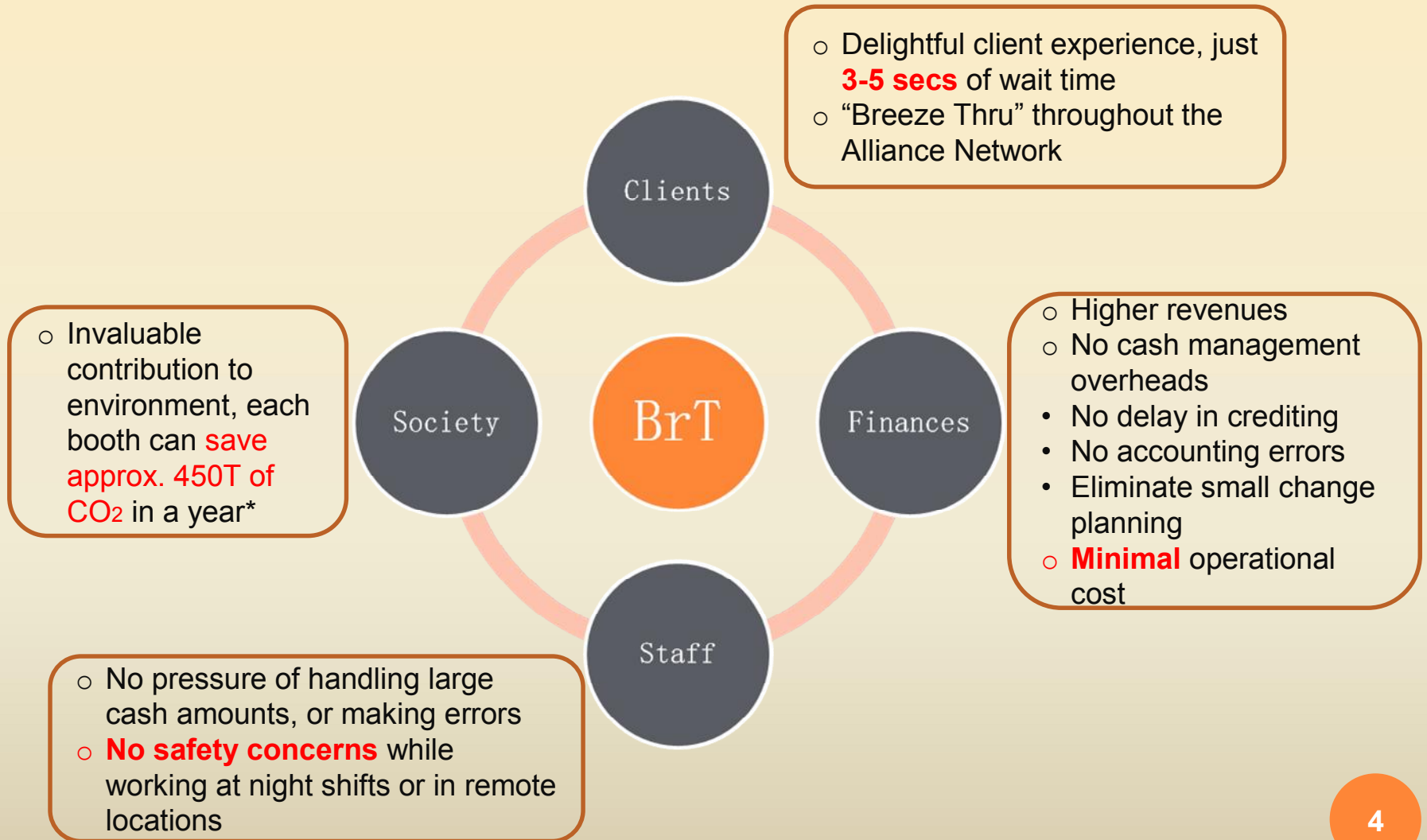
An end-to-end solution to assist management of toll booths using RFID tags

- Easy to deploy, needs just a few hours on location
- Minimal Infrastructure needed, depending on the Operating model
- Provides **Seamless experience** to Customers

Features

- Prepaid model of operation
 - Customer pays an amount and purchases a tag
 - Tag can be recharged online or at the toll booths
- Centralised data management
 - Details on toll rates, customer tags, tag balance etc are stored centrally
- Compatible with any internet type used by the computer – dongle, wifi etc
- Minimal Infrastructure - might need just the Reader and an internet connection for the computer, depending on the Operating model

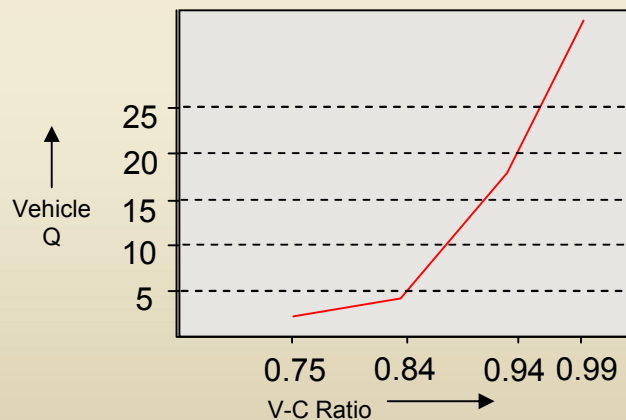
BENEFITS



TRAFFIC ASSESSMENT – A Popular Tollway

	2014	2016	2017
Peak Arrival Rate (PUCs Per Hr)	425	446	460
Volume-Capacity Ratio (Per Hr)	0.94	0.99 ¹	1.02 ³
Avg number of vehicles in Queue	16	118 ²	
Avg waiting time (mins)	2.4	16	

- 1 At just 5% increase in exp vol, V-C ratio reaches saturation
- 2 Avg queue length at 5% increase in Vol
- 3 At 10% increase, **Capacity is exceeded**, unsustainable traffic load



THE SYSTEM



- 1 Tag read by Operator computer
- 2 Tag sent to Server for Status Check
- 3 Decision and current balance sent to Operator computer
- 4 Action by Operator
 - Sufficient balance – Opens gate
 - Insufficient balance – Collects amount, credits Tag and opens gate

OPERATING MODEL

❖ Option 1

Amount maintained by Client in their account. The balance amount is updated instantly in the Solution Database and data is sent to Client end of day for reconciliation

Pros	Cons
Client has visibility on the amount available and can conduct reconciliation anytime	Overhead of maintaining the account

❖ Option 2 - **Recommended**

Amount maintained by the Solution Provider as a Escrow account and based on the day's toll usage, credited to the Client's account end of day

Pros	Cons
<ul style="list-style-type: none">▪ No overhead of maintaining an account▪ Can provide Seamless experience as the customer can go to any toll operated by any of the Clients and Breeze Thru, the same tag is read and processed at all the tolls	None

CONTACT US

If you have any query or suggestion, please feel free to contact us anytime.

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THANK YOU

