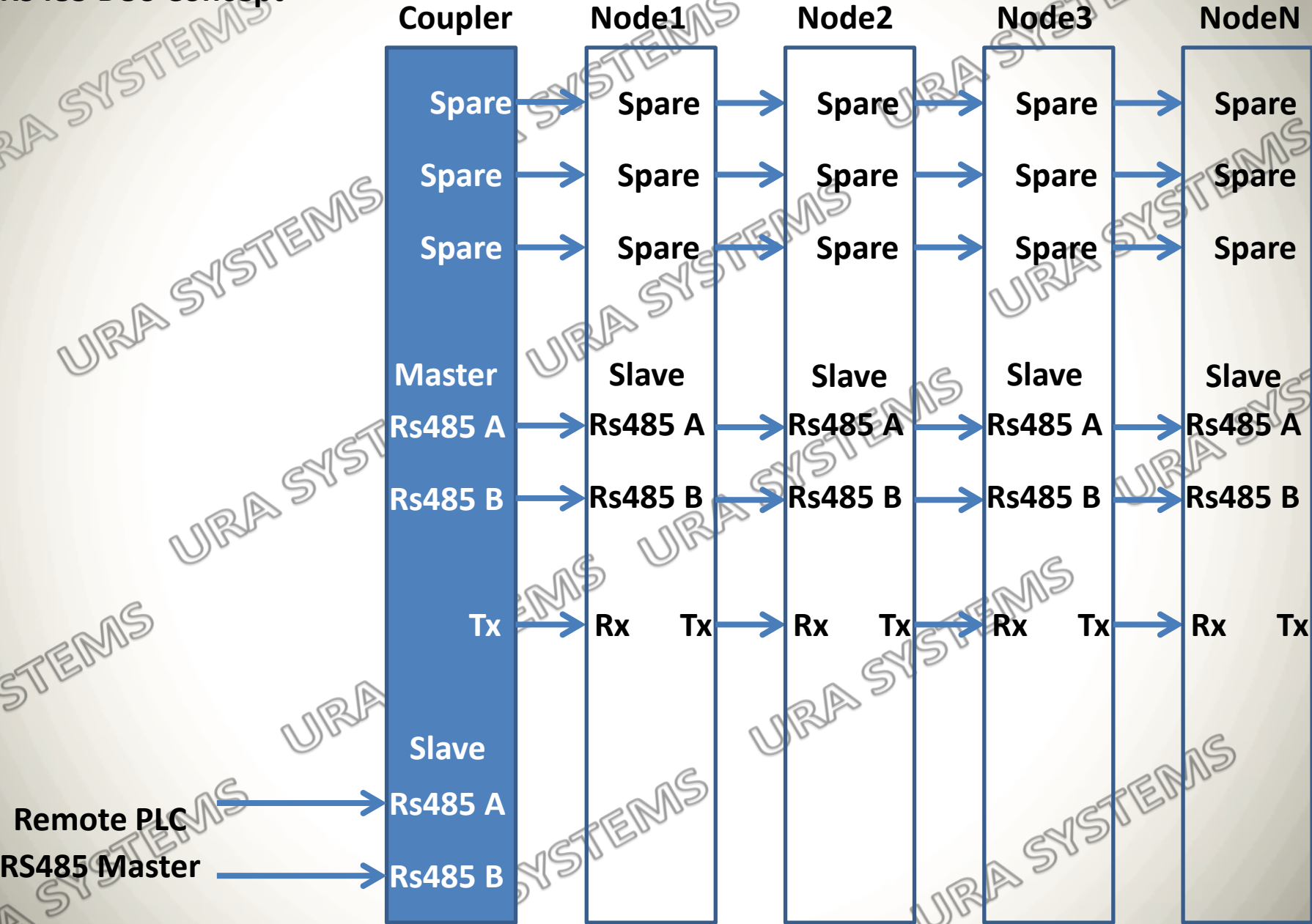Sample arrangement of Nodes in a bus is shown in next slides.

We can either use rs485 bus or can bus for nodes the one with highest speed

There will be a Coupler which will act as data supplier between remote master device and nodes

Configuration of the coupler will be done with a software application which will map the data from the nodes to upper controller.

RS485 BUS Concept

Modbus Concept

Holding Registers	Write data
1	Node 1 data
2	Node 2 data
3	Node 3 data
4	Node 4 data
5	Node 5 data
6	Node 6 data
n	Node n data

Input Registers	Read Data
1	Node 1 data
2	Node 2 data
3	Node 3 data
4	Node 4 data
5	Node 5 data
6	Node 6 data
n	Node n data

CAN BUS Concept

Coupler	Node1	Node2	Node3	NodeN
Spare	Spare	Spare	Spare	Spare
Spare	Spare	Spare	Spare	Spare
Spare	Spare	Spare	Spare	Spare
Master	**Slave**	**Slave**	**Slave**	**Slave**
CAN +	CAN +	CAN +	CAN +	CAN +
CAN -	CAN -	CAN -	CAN -	CAN -
Tx	Rx Tx	Rx Tx	Rx Tx	Rx Tx
Slave				

Remote PLC → Rs485 A

RS485 Master → Rs485 B