RD == 0
What should we do ?

Luca Martini.
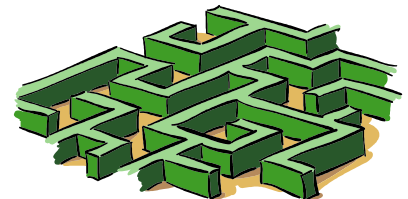
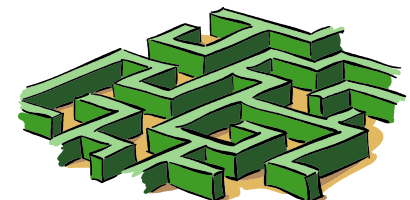# *RD Usage and Definition*

- ➲ 8 byte value in conjunction with VPN prefixes to make them Unique
- ➲ 8 byte value in conjunction with nexthop usually used as 0.
- ➲ **RD type 0:**
  - • <2 bytes Public AS number> <4 bytes Assigned number subfield>
- ➲ **RD Type 1:**
  - • <4 bytes IP Address> <2 bytes Assigned number subfield>
- ➲ **RD Type 2:**
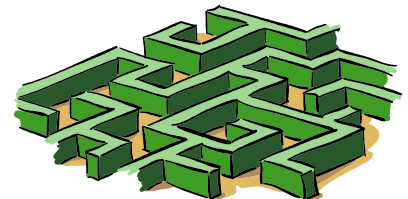 - • <4 bytes Public AS number> <2 bytes Assigned number subfield>

RD Value of 0

➲ AS value of 0 is a reserved value for 2 bytes AS.

➲ Violates with RD type 0

➲ Defeats the purpose of using RDs in VPNs
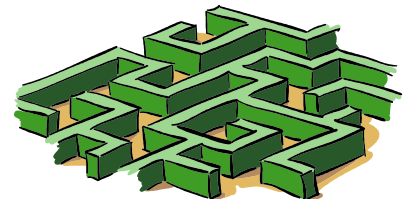
RD Value of 0

- ➲ Consider RD value of 0 as illegal for VPN prefixes.
- ➲ Drop and ignore prefixes in BGP for VPN safi with RD value of 0
- ➲ Log an appropriate error.

- If we Agree we should Accept this **Very Simple** document to be sent directly to AD for publication.
- Maybe set an IETF record ? Publish V00 ?
- Questions ?