

# EUROPEAN IPv6 DAY

## Jump starting IPv6

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GROUP Research & Development



**vodafone**

# Vodafone Group R&D.de

## Current State of IPv6

- Primary Motivation is to enable ALL-IP Mobile Networks
- Focus of Research Activity has been to enable true Peer-2-Peer
- Active in wireless IPv6 for over 7 years
- VF R&D operates a fully enabled IPv6 mobile network
- **IT IS TIME TO MOVE FROM THE LAB to REAL WORLD – Time to Jump-Start IPv6**



# Showstoppers and drivers for IPv6 deployment

- NAT has become a “religion” in wired networks
- NAT in a wireless / cellular world is costly
  - \_ Shortens Battery life time
  - \_ Consumes excess Radio capacity
  - \_ Responsible for Delays
  - \_ Requires effort to minimize security risks
- Exhausting IPv4 address space
- IPv6 is still not understood
  - \_ Administrators love IPv4
  - \_ For every IPv4 issue exists a complex solution ;-)
  - \_ Myths driven by incompetence and resistance to change



# What is necessary to surmount Obstacles

- Commercially Relevant Scenario is needed Jump Starting IPv6
- The Jump-Start Scenario requires
  - \_ Commercially Available Equipment Compatible with existing RAN
  - \_ Handsets supporting dual stack
  - \_ Basic IPv6 Internet Connectivity via Operators Network
- A Jump Start Scenario shows:
  - \_ Vendor Supported Products and Services easily deployed and integrated
  - \_ Allows real NAT comparisons
  - \_ A Jump Start Scenario proves technical feasibility
  - \_ Enables customers to experience benefits of IPv6



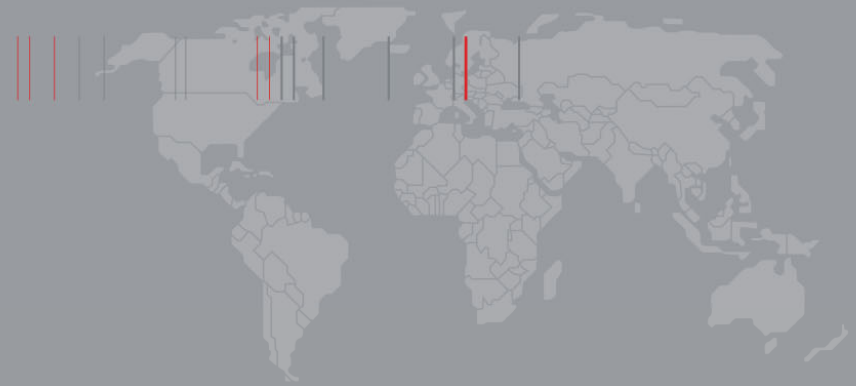
# It is time to move from the LAB to REAL WORLD

- Overcome the marketing vs. technology discussion
- OpCo driven IPv6 projects in local markets
- Vodafone provides open IPv6 test facilities to all



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