# NETWORK HIGHWAYS: A ROAD WITHOUT A MAP

STATE OF THE NETWORK 2014
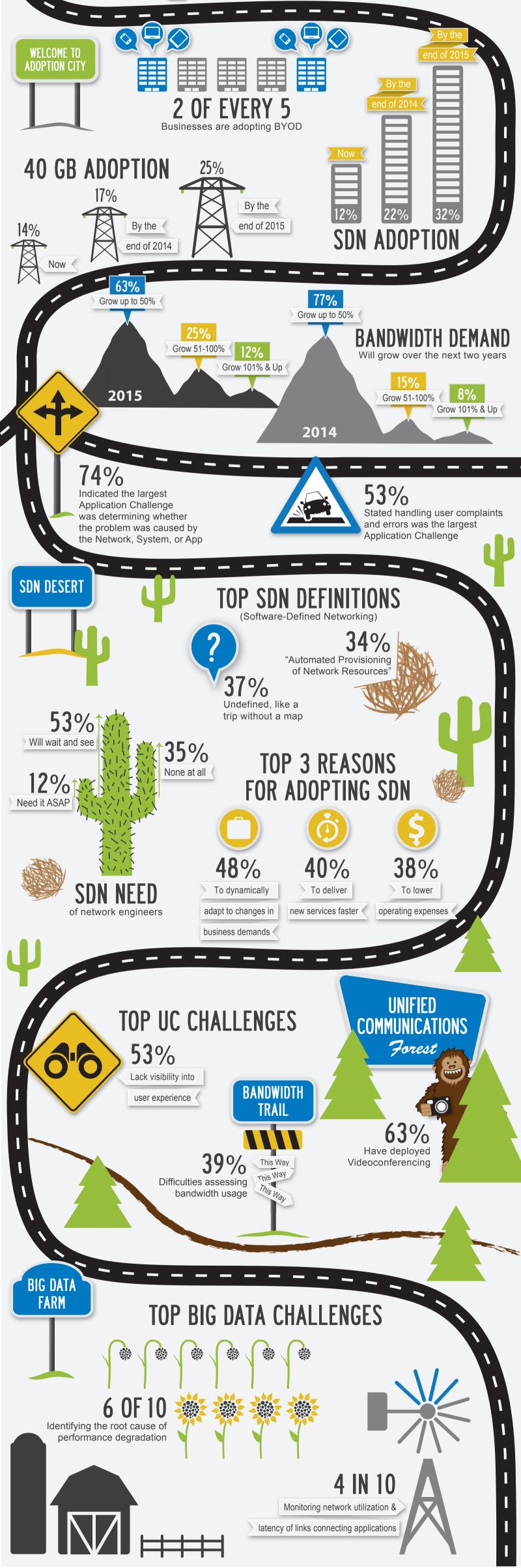
By: Network Instruments

How do you prepare for a road trip? Study a map. Set the GPS. Have a smart phone handy in case you get lost. Yet, according to the Seventh Annual State of the Network Global Study, many IT teams lack the visibility and understanding to avoid potential pitfalls. Hazards can include managing UC, handling rapid bandwidth growth, implementing SDN, and ensuring application performance. When you know what lies ahead, it becomes easier to chart a course to success.

## WELCOME TO ADOPTION CITY

### 2 OF EVERY 5
Businesses are adopting BYOD

## SDN ADOPTION

- Now: **12%**
- By the end of 2014: **22%**
- By the end of 2015: **32%**

## 40 GB ADOPTION

- Now: **14%**
- By the end of 2014: **17%**
- By the end of 2015: **25%**

## BANDWIDTH DEMAND
Will grow over the next two years

**2015**
- **63%** Grow up to 50%
- **25%** Grow 51-100%
- **12%** Grow 101% & Up

**2014**
- **77%** Grow up to 50%
- **15%** Grow 51-100%
- **8%** Grow 101% & Up

**74%** Indicated the largest Application Challenge was determining whether the problem was caused by the Network, System, or App

**53%** Stated handling user complaints and errors was the largest Application Challenge

## SDN DESERT

### TOP SDN DEFINITIONS
(Software-Defined Networking)

- **34%** "Automated Provisioning of Network Resources"
- **37%** Undefined, like a trip without a map

## SDN NEED
of network engineers

- **53%** Will wait and see
- **12%** Need it ASAP
- **35%** None at all

### TOP 3 REASONS FOR ADOPTING SDN

- **48%** To dynamically adapt to changes in business demands
- **40%** To deliver new services faster
- **38%** To lower operating expenses

## UNIFIED COMMUNICATIONS Forest

### TOP UC CHALLENGES

**53%** Lack visibility into user experience

**63%** Have deployed Videoconferencing

## BANDWIDTH TRAIL

**39%** Difficulties assessing bandwidth usage

This Way This Way This Way

## BIG DATA FARM

### TOP BIG DATA CHALLENGES

**6 OF 10** Identifying the root cause of performance degradation

**4 IN 10** Monitoring network utilization & latency of links connecting applications

## NETWORK INSTRUMENTS®
JDSU Performance Management

**For complete results from the Network Instruments®**
Seventh Annual State of the Network Global Study visit
www.networkinstruments.com.