

niagara⁴

Niagara 4 Xtend Training Course

Thinktech company facts

- ▶ Australian owned
- ▶ Operating from Sydney office
- ▶ The only Niagara certified training partner in Australia
- ▶ thinktech was born through a passion for learning
- ▶ We aim to provide knowledge and enhance capabilities of current and future generations of engineers



The need for N4 Xtend

N4 TCP

- ▶ Overview of the Niagara 4 framework
- ▶ Introduction to concepts
- ▶ Fundamentals explained
- ▶ The framework grows the length of TCP stays the same
- ▶ Course for almost 'everyone'
- ▶ Students use 10%-20% of Niagara after completion

The need for N4 Xtend

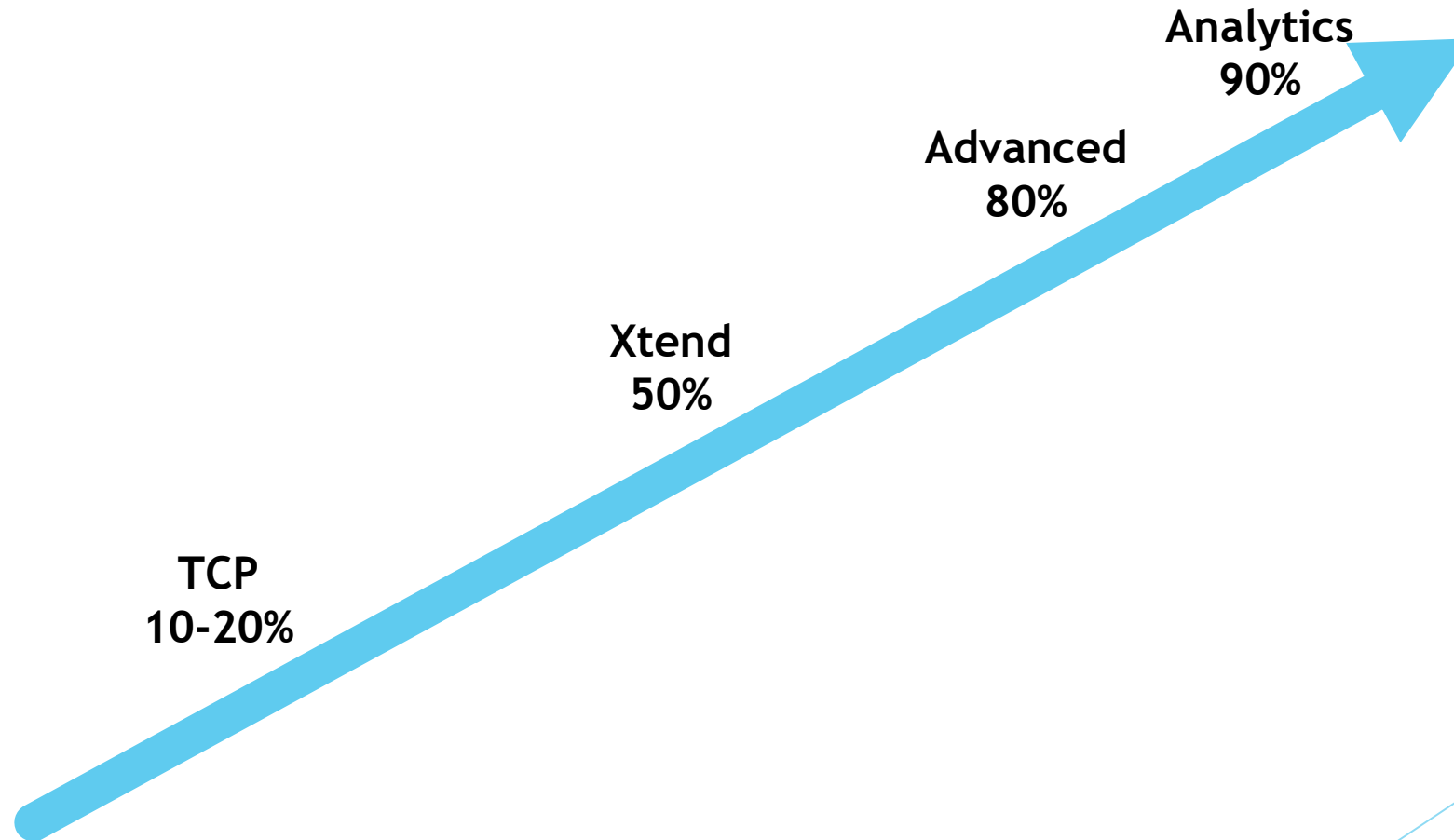
N4 Xtend

- ▶ Focus on saving time and money
- ▶ Practical application of concepts
- ▶ New IOT/Smart Building content introduced
- ▶ Bridges a gap to the N4 Advanced
- ▶ Shortens the time required for achieving competence
- ▶ Opens up new avenues, encourages thinking outside the box
- ▶ Content designed based on years of experience and feedback from our clients - designed by the industry for the industry

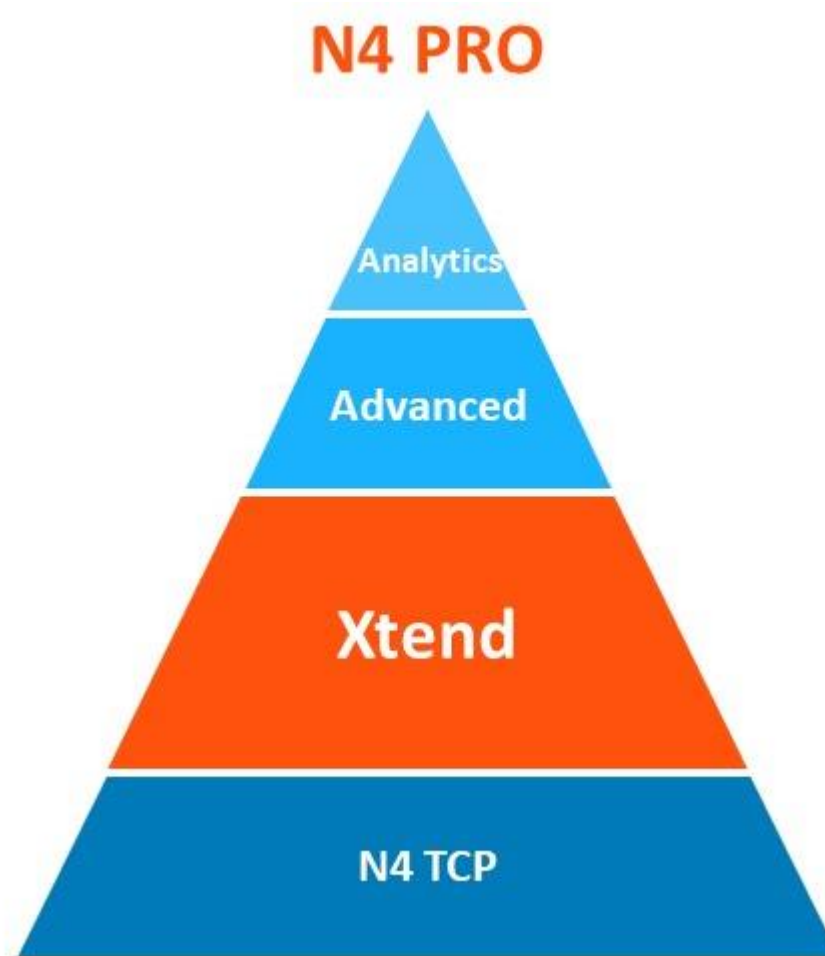
Why not to do N4 Advanced straight up

- ▶ Big gap between TCP and Advanced
- ▶ Often too advanced for less experienced users
- ▶ Extend is not just a bridge! New content, not covered anywhere else in the world

Niagara 4 proficiency



Niagara 4 proficiency



The content



Day 1 - Big Data Day

- ▶ Security
 - ▶ Station security - passphrase / passwords
 - ▶ Security service
- ▶ Smart tagging
 - ▶ Tag rules / auto-tagging
 - ▶ Tagging new and existing stations
 - ▶ nHaystack module and RESTful API
 - ▶ Smart NEQL search
- ▶ Useful hierarchies
 - ▶ Smart menus
 - ▶ Grouping data in right hierarchies
 - ▶ Granting access to relevant information only
- ▶ BQL
 - ▶ Syntax
 - ▶ How to use queries, BQL tools and tables effectively
- ▶ Program service
 - ▶ Advanced examples of use



Day 2 - Smart Graphics Day

- ▶ Graphics deep dive
 - ▶ How to design user friendly graphics
 - ▶ BFORMAT explained
 - ▶ Useful BFORMAT examples
 - ▶ Graphics relativisation
 - ▶ Advanced px include
 - ▶ Tabbed panes
 - ▶ Dashboards
 - ▶ Tag based graphics
 - ▶ SVG



Day 3 - Integration Day

- ▶ Signing modules
 - ▶ Code signing certificates
 - ▶ Module signing
- ▶ Integration workshop
 - ▶ IOT protocols
 - ▶ SNMP
 - ▶ MQTT
 - ▶ JSON
 - ▶ OPC
 - ▶ SQL



Day 4 - Data Access Day

- ▶ Templates
 - ▶ Creating and deploying a fully integrated template
 - ▶ Bulk deployment from Excel
- ▶ Reports
 - ▶ Manual reports
 - ▶ Auto-reports generation
- ▶ History
 - ▶ User friendly history navigation
 - ▶ Use of metadata
- ▶ Alarms
 - ▶ Correct alarm management and display
 - ▶ Real example of e-mail alarm service set up
- ▶ Niagara diagnostics
 - ▶ SPY feature
 - ▶ Monitoring main system parameters



Day 5 - Practice Day

- ▶ Test project
 - ▶ Small project built by yourself

