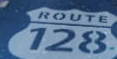




ROUTE 128

How to implement IPv6 in very large organizations



Speaker

Wilhelm Boeddinghaus, CEO Route 128 GmbH in Berlin and Boston

IPv6 since 2008

German IPv6 Council

30+ years in networking

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Route 128 GmbH and Route 128 Inc.

IPv6 Smartkit

Confluence based knowledgebase for IPv6 migration

From project management to Wireshark

From first steps to training and hands on learning

Large Organisations

Large by employees

Large by geography

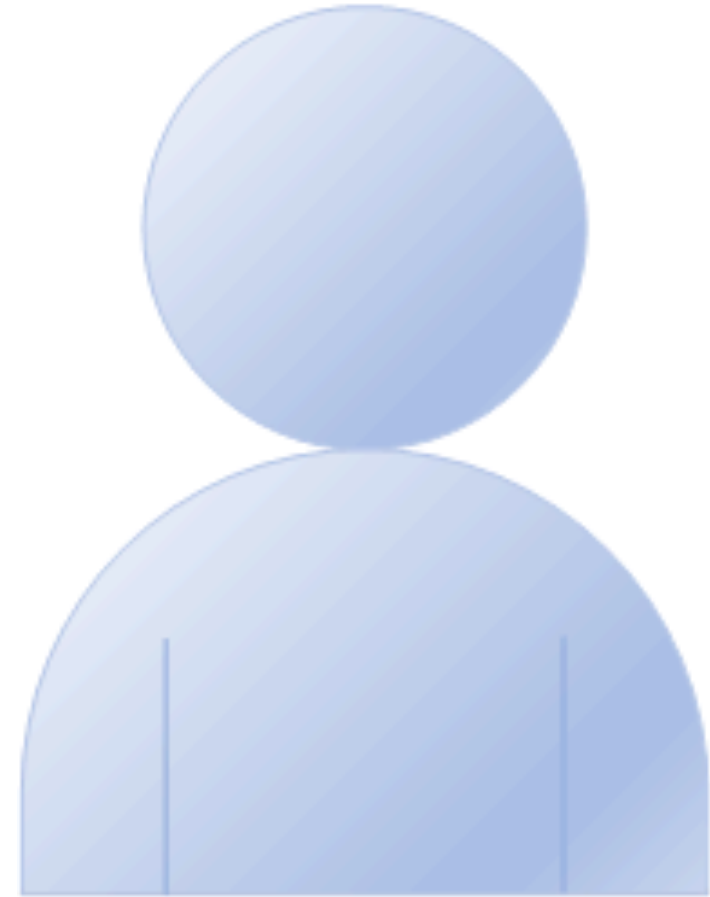
Large by revenue

Large Organisations

Large by employees

Large by geography

Large by revenue



Large Organisations

50.000 and more people

Examples in Germany

Volkswagen in Wolfsburg

Deutsche Rente (German pension system)

IPv6 in large Organisations

Where to Start?

What Skills are
needed?

Agile or traditional?

How to organize the
project?

Where to start?

Where to Start?

Look for an easy start

Go in small steps, identify possible first steps

Two Routers

Between two databases

Test environment

The larger the organization, the smaller the first step

First step

Where to Start?

If the first step is identified:

Do a detailed inventory (of the first step)

Question: Is the first step still a good candidate?

If yes: do some testing, plan and implement

If no: start from the beginning

After first step

Where to Start?

Celebrate your success

IPv6 works

It does not hurt 😊

Find next step, possibly a larger step

Repeat until finished

What skills are needed?

What Skills are
needed?

Of course, IPv6 know-how

Project management

Leadership: bring departments to one table

Leadership: "IPv6 is very important, but not before I retire"
(35-year-old employee)

Agile or Traditional

Agile or traditional?

Agile

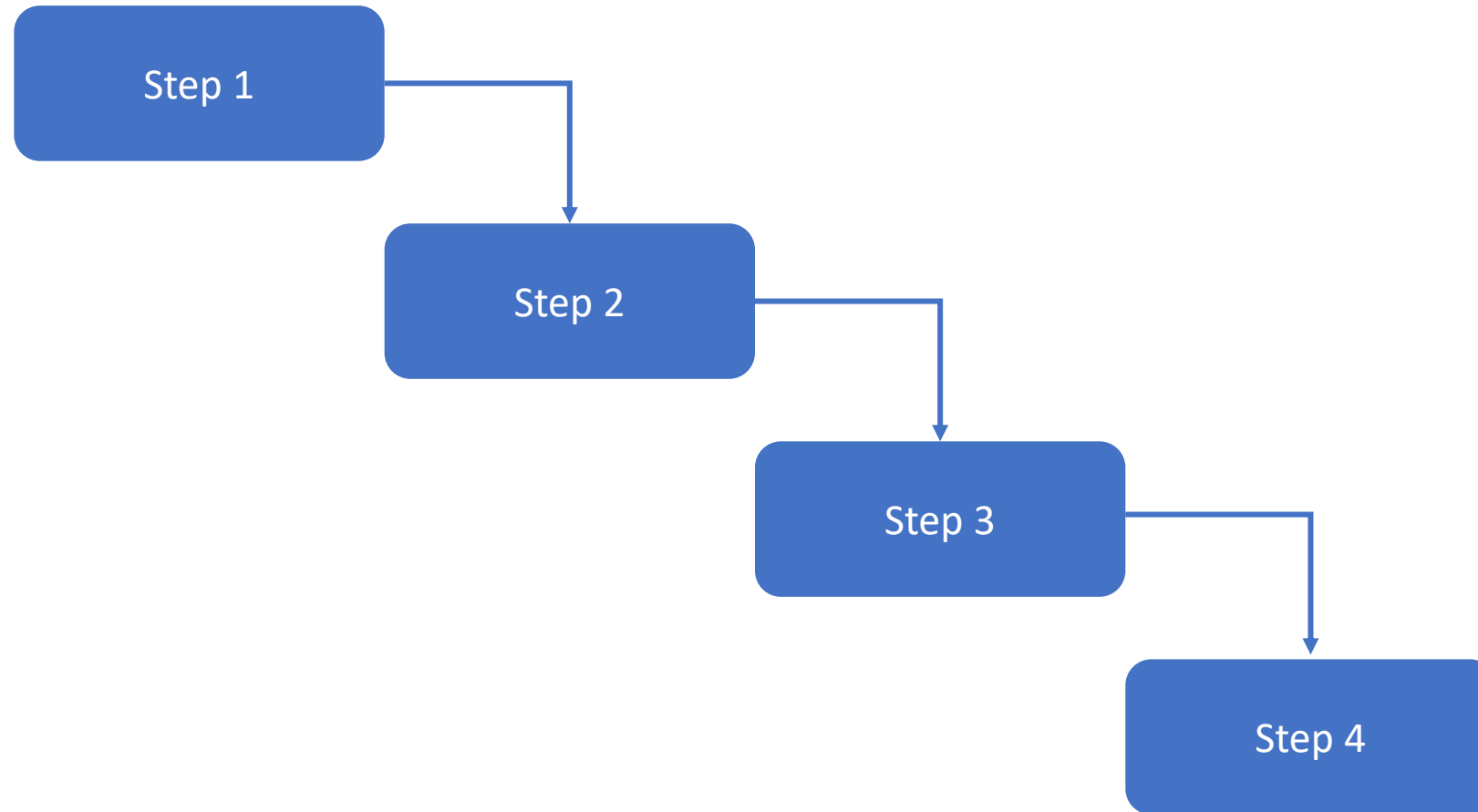
- Work in small steps
- Learn from mistakes
- Learn from success
- Get better, step by step

Traditional

- One step after the other
- Take big steps
- Steps 2 depends on step 1
- Better make no mistakes

Waterfall for IPv6?

Agile or traditional?



Waterfall for IPv6?

Agile or traditional?

I think not

Too many departments are involved (network, server, client, software, development, ...)

Too many dependencies

Takes too long

Agile

Agile or traditional?

Go small steps

Learn -> test -> implement -> learn -> test -> implement

If something goes wrong, the consequences are not too bad

Build up your experience and confidence

Who is in charge of the IPv6 migration?

Agile

Traditional

You and your
organisation

Your consultant

Agile or traditional?

How to organize the project?

How to organize
the project?

Take control of your project

Knowledge management / database for all departments

Have coaches / guides to help all departments to start the IPv6 migration

Offer learning and training (inhouse being more important than external training)

How to organize the project?

How to organize
the project?

Offer learning and training
(inhouse being more
important than external)

How to organize the project?

How to organize
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Offer learning and training
(inhouse being more
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Coaches / guides to help all
departments to start the IPv6
migration

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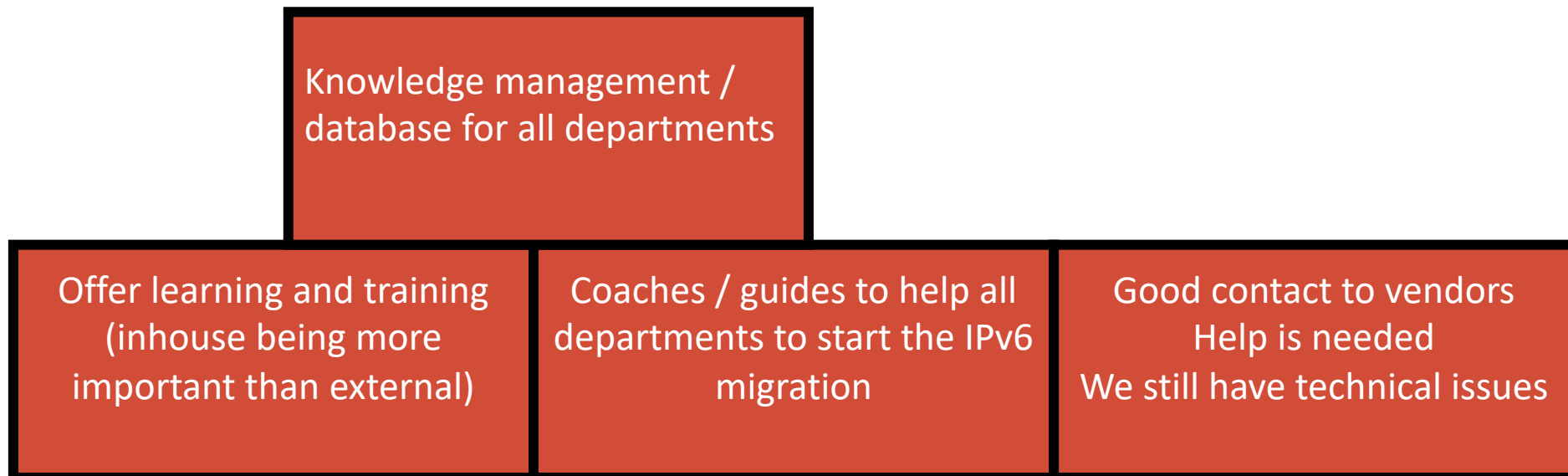
Offer learning and training
(inhouse being more
important than external)

Coaches / guides to help all
departments to start the IPv6
migration

Good contact to vendors
Help is needed
We still have technical issues

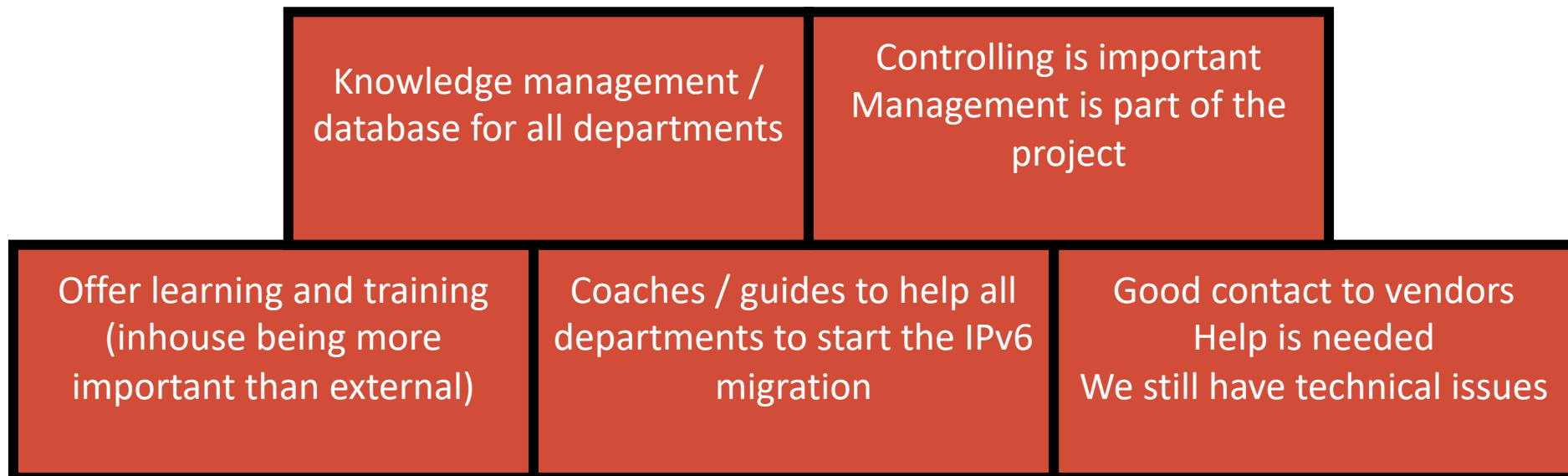
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