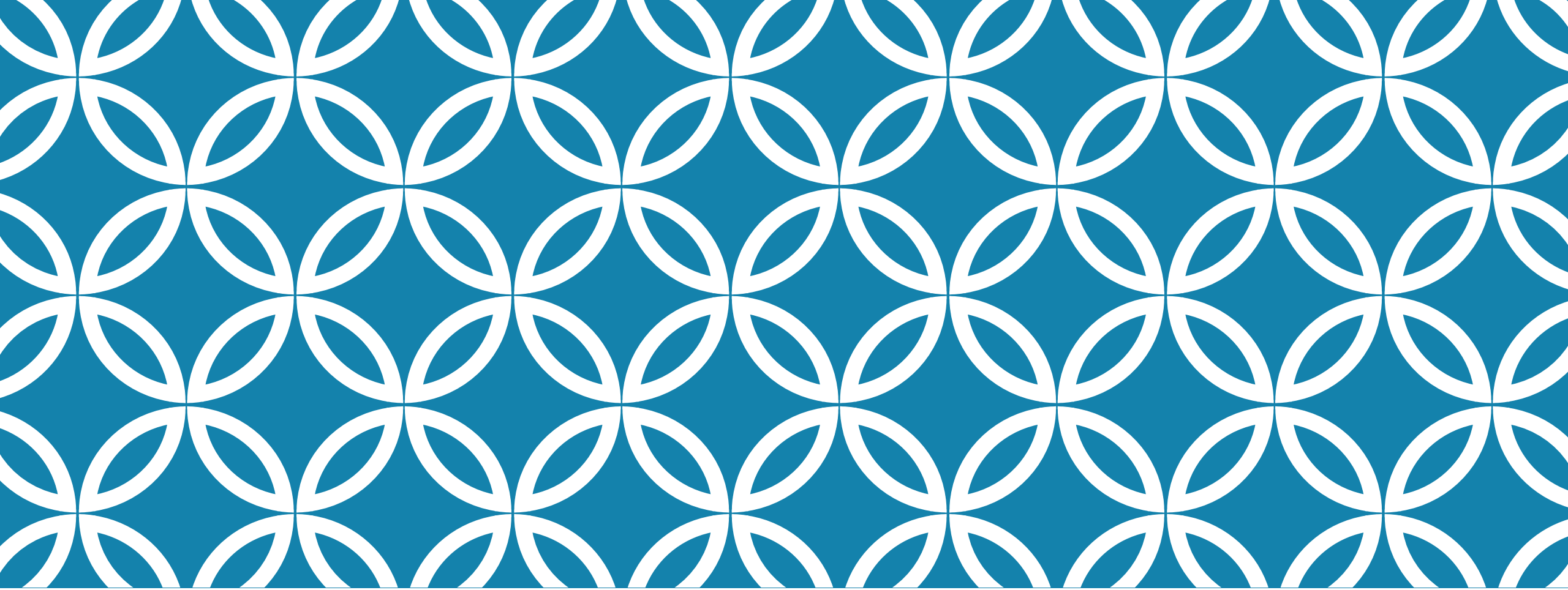


CONVERGENCE STRATEGY FOR A LONG FUTURE UNDER VMS

pia-sofer / PNT / Assystem

PLAN

Presentation of the actors, skills, achievements

- pia-sofer : strategy, fundamentals, innovation
- PNT : third party maintenance, upgrade, system ISS
- Assystem : MOC

An example of a successful relaunch: Line 14, Ada

Convergence from pia-sofer/PNT viewpoint

Convergence from Assystem's viewpoint

Conclusion

PIA-SOFER : STRATEGY, FUNDAMENTALS, INNOVATION



"Play It Again: Why a Recovery Strategy Works with VMS

VMS is at both ends of the IT chain

- Close to the founders (MIT, digital laboratories,...)
- In step with the latest (LLVM, Open Source,...)

Strong involvement in the transformation of DECUS into VMSgenerations

Design and involvement in VMS transition projects

- BackPort from Rally to Cobol/DecForms
- Porting to Itanium line 2 Subway of Lille
- Port to Itanium line 14 / build of Ada compiler

PNT : THIRD PARTY MAINTENANC



Design and involvement in VMS transition projects

- Porting to Itanium line 2 Lille Subway
- Porting to Itanium line 14 Paris Subway

ISS at Siemens Mobility, Orlyval, Gras Savoye, STEF-IT, Thessco...

Management of OpenVMS Disaster Recovery Plans for Sungard customers

OpenVMS VAX and ALPHA virtualization under SIMH, EMUVM, CHARON

VSI partnership

ASSYSTEM: WHO WE ARE

Assystem:

- €500 million in revenues (2020)
- More than 6,000 employees
- 2nd largest independent nuclear engineering company in the world
- Main sectors :
  - Energy
  - Process Industry
  - Infrastructure
  - Nuclear
  - Transport

Business Unit 'Connect' :

- 40 M€ in revenues (2020)
- More than 450 employees
- Main sectors :
  - Global security (site protection, functional security, industrial cybersecurity)
  - Industrial control systems (control/command, industrial supervision, etc.)
  - Maintenance & services (MOC, TPAM, SM)

ASSYSTEM : OUR VMS HISTORY

VAX/VMS core software support since 2008

- Crash analysis
- Customized training (security, operation monitoring and tuning, patching...)
- Maintenance of internal skills
- Maintenance of VAX hardware
  - Component repair of equipment
  - Development of test benches and programs
  - New developments
- within the framework of the MOC of N4 nuclear power plants

AN EXAMPLE OF A SUCCESSFUL RELAUNCH: LINE 14, ADA





The choice to port Alpha to Itanium is the result of years of support and lobbying

It was made at the worst possible time: 2013/2014

Our vision of VSI openness worked

First VSI / Itanium 4 license in the world

AN EXAMPLE OF A SUCCESSFUL RELAUNCH: LINE 14, ADA





Second hitch: the day of the actual launch (2015) Adacore stops all Ada support under OpenVMS

pia-sofer and PNT partner with an Ada specialist, and the compiler is rebuilt from scratch (cross-compiled GCC environment)

Among other achievements: x11 on linux, ½ million lines of rdb module code, ½ million lines of Ada code

A sequel: porting from Ada to VMS/x86 is in progress on our side

CONVERGENCE FROM THE PIA-SOFER/PNT VIEWPOINT





Response to the current situation:

- Either the new developments are not accepted: passage through a form of MOC
- Or the new developments are adopted: make them live according to a long time

Generally, back up the long time with the very long time

Strategy for acquiring and maintaining skills

- Rely on Assystem's training policies
- Crossed motivations: new for the "olds", old for the "news".

To offer a structural economic perennity

CONVERGENCE FROM ASSYSTEM'S VIEWPOINT

Why this convergence?

- Possibility to capitalize on our know-how (knowledge, methodology)

The assets of Assystem :

- Ability to train our resources (annual training program) (average age of Assystem team: 30 years) and those of the customer
- Sustainability of the competences
- Structure big enough to address customers of 1st plan

PIA/PNT assets :

- REX and expertise
- Capacity to train

CONCLUSION







Our strategy is based on one idea: in its transition phase, the VMS ecosystem must take advantage of talent associations

We believe that we are part of the general approach of VMSgenerations to re-emerge VMS skills in France

Q&A

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