

# INFRASTRUCTURE & PRODUCTION

2013



criteo.

FOR THIS NIGHT  
AND ALL NIGHTS TO COME

# WELCOME TO THE WALL



»» 7 DATA CENTERS

»» 3000 DEVICES (800 A YEAR AGO)

»» EVERYTHING DONE IN-HOUSE

»» UPTIME > 99.95%

»» RTB TRAFFIC IN 2012 : 12x

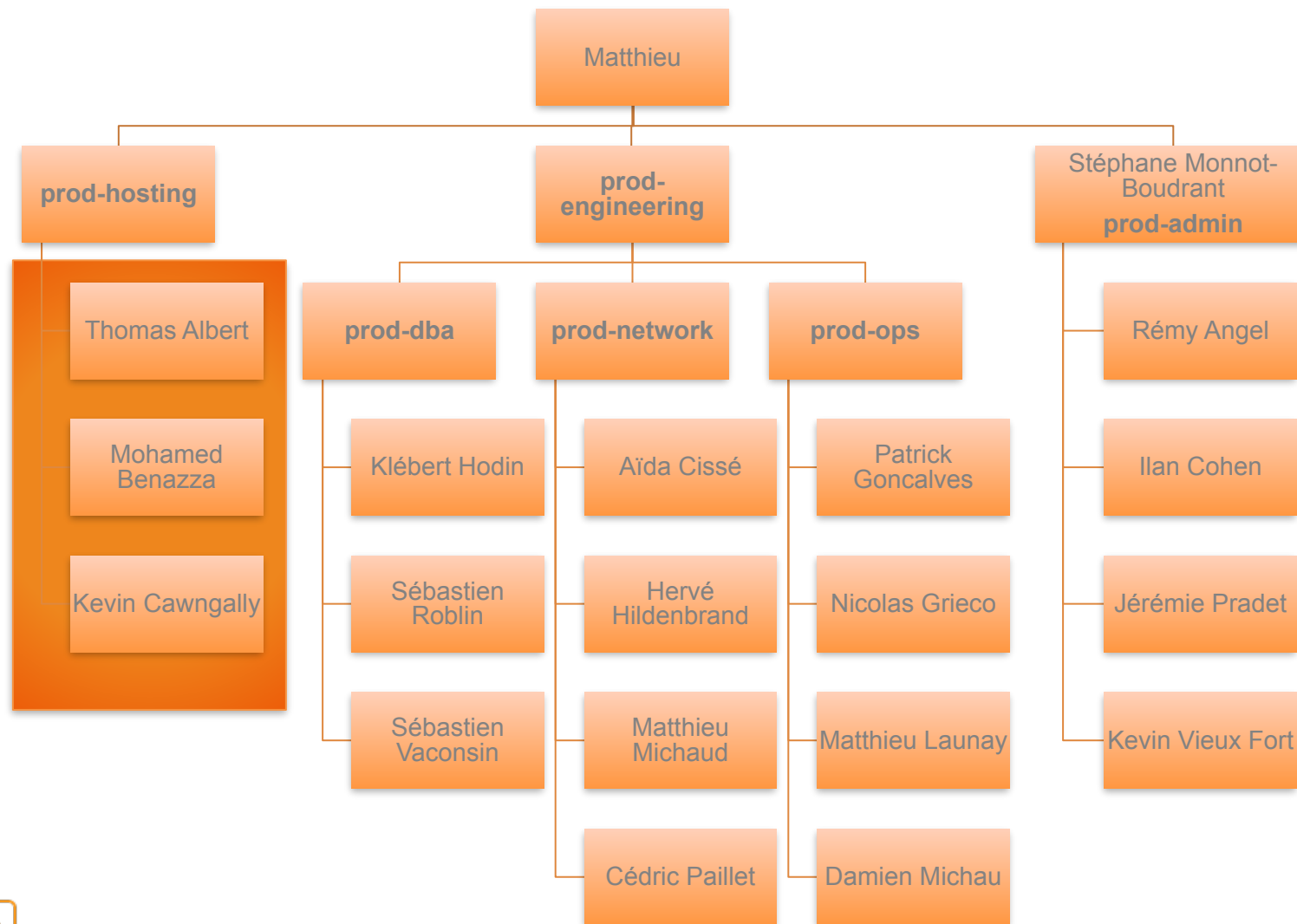
»» TOTAL DAILY TRAFFIC

- 30B HTTP REQUESTS

- 1.2B UNIQUE BANNERS

»» PEAK TRAFFIC : 500K HTTP REQUESTS

# THE CREW

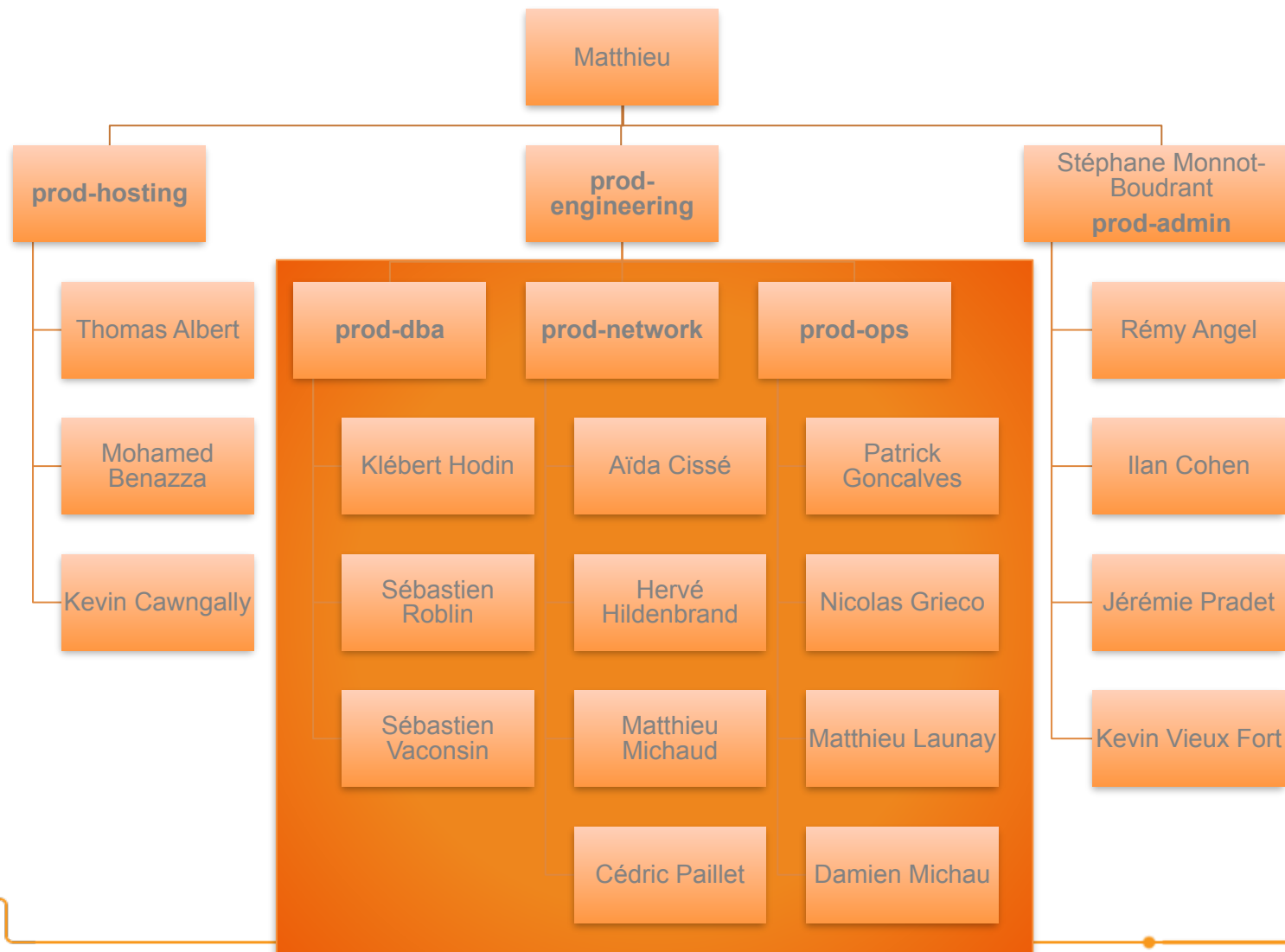




# PROD-HOSTING: THE STEWARDS

Like I said...  
Supplier relations \m/

# THE CREW

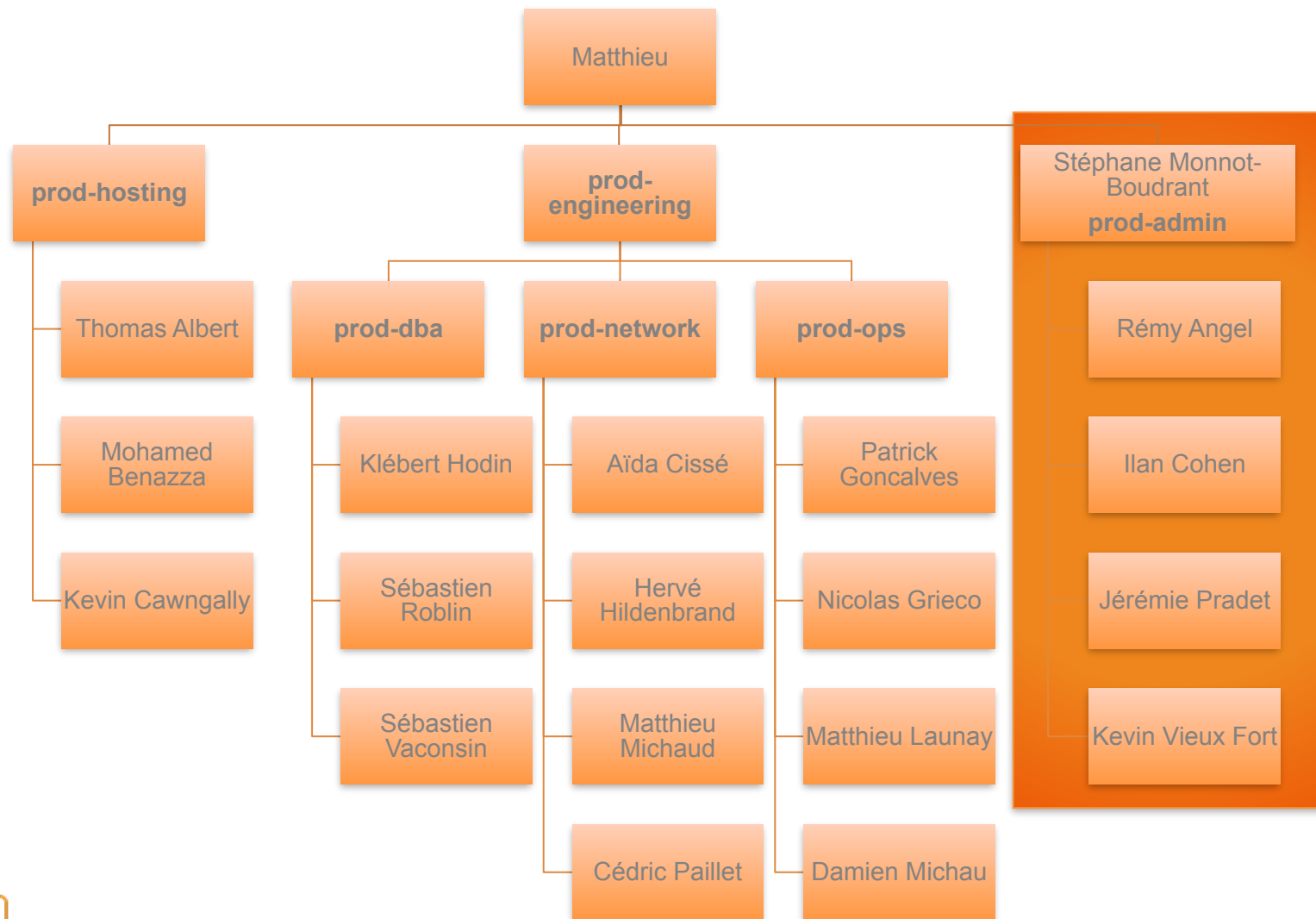




# PROD-ENGINEERING: THE BUILDERS

- Refactor
  - EQX PA2 consolidated in PA3
  - Production & HPC LAN cleanup (150 racks)
  - Decommissioning of G5 servers
  - F5 load balancers OK at last, etc.
- Industrialize
  - Couchbase, MongoDB, Hadoop
  - Chef, Rack 604, SQL Release Management, etc.
  - Rack Monkey, Centreon
  - Blueprint for new DCs
- Scale
  - More of everything everywhere!
  - 2 new DCs: Amsterdam & Tokyo5

# THE CREW



# PROD-ADMIN: THE RANGERS

#1 objective: 100% uptime, 24/7/365

- MRO: Maintenance, Repair, Overhaul
- Decisive action when on-duty
- Commitment to report, analyze & solve issues

#2 objective : work with the Builders to scale our platforms

- Automate, document, test, etc.
- No difference here.

This requires a sharp organization (KanbanOps)



# 2013 EXPEDITION

- Open China DC
  - Close down Brussels DC & Otemachi DC
  - Start thinking about next APAC DC (SG?)
  - Find solution for remote markets: BR, OZ and now ZA \*sigh\*
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- Upgrade firewalls (thx PuMP)
  - Scale Layer 2 (more racks → bigger switches)
  - Upgrade Layer 3 (next-gen routers in FR/NY/SV/TKY)
  - Split load-balancing architecture (static vs dynamic)
  - Build 6-Petabyte Hadoop cluster in Amsterdam DC
  - IPO-related projects (NCIS, security, etc)
  - BI infrastructure, AD in Production, SQL Server EOL, etc

