Data and Humans: HR Analytics in Recruitment

Máté Gaál

Data Analytics & Digital Overarching Solutions Manager @ Deutsche Telekom IT Solutions Hungary

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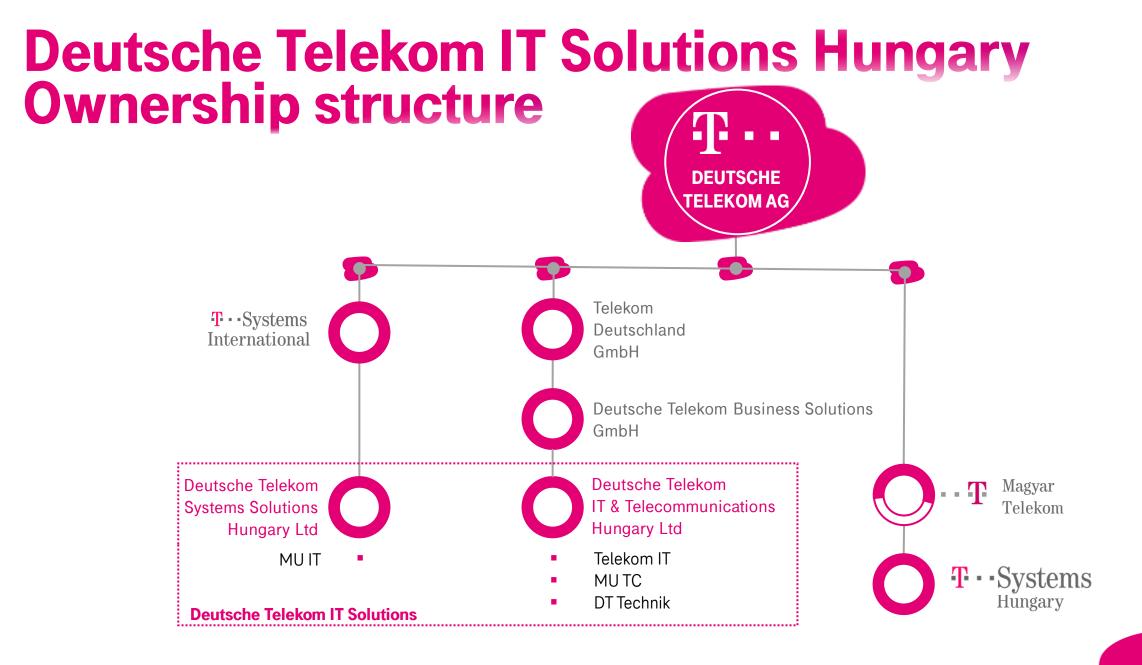
Specialized in Data Analytics and Digitalization of overhead functions

I'm a husband and father of 2

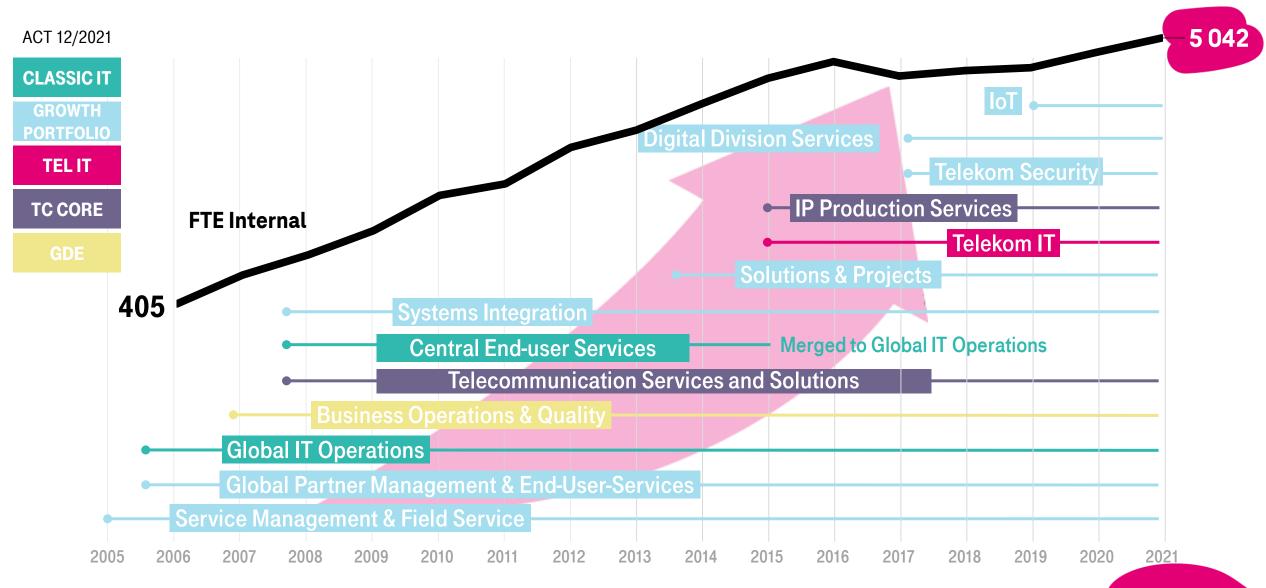
My hobbies include strength trainings and metal music

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We created a diverse and colorful company



We serve more than 1000 customers who rely on our services



Innovation













WEDNESDAY 03. AUGUST CLOUD SERVICES INNOVATION FRAMEWORK • DT-ITS INNOVATION • TSI CLOUDHUB • INNOVATION & BUSINESS STRATEGY • TELEKOM IHUB • QUANTUM COMPUTING WITH PLANQK • INNOVATION IN DEVSECOPS • ROAD CONDITION ANALYZER

THURSDAY 04. AUGUST

3-4 AI

NVDIA OMNIVERSE TSI INNOVATION LAB PARTNERMANAGEMENT & INNOVATION INNOVATION TO PORTFOLIO IBM QUANTUM COMPUTING MULTICLOUD OF MADNESS

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T-SYSTEMS 🔒 🗟 😂 😂

Gl

BUDAPEST, MILLPARK & WEBEX

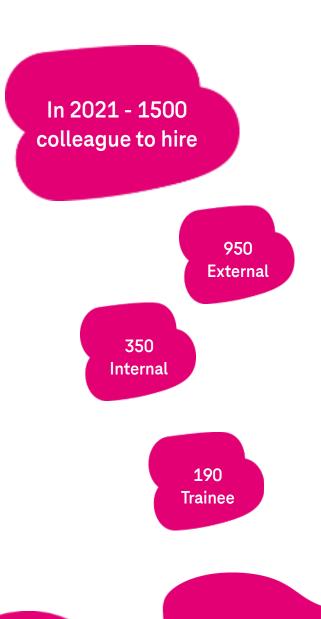
INNOVATION &

Painting the scene

What happened?

Unpreceeded amount of hiring demands from Deutsche Telekom companies for high profile colleagues

- Market challanges
- Old systems, processes, reports failed under new conditions
- Tension and escalations due to falling behind expected schedule





BI Report was delivered in 1 Month

But it did NOT helped 🛞 GOALS: Shorten time to gain insight from data

Report was too analytic

Key Persona: Executives inernal and external

We analyzed WHY?

Action point 1

Transform visual representation of the data





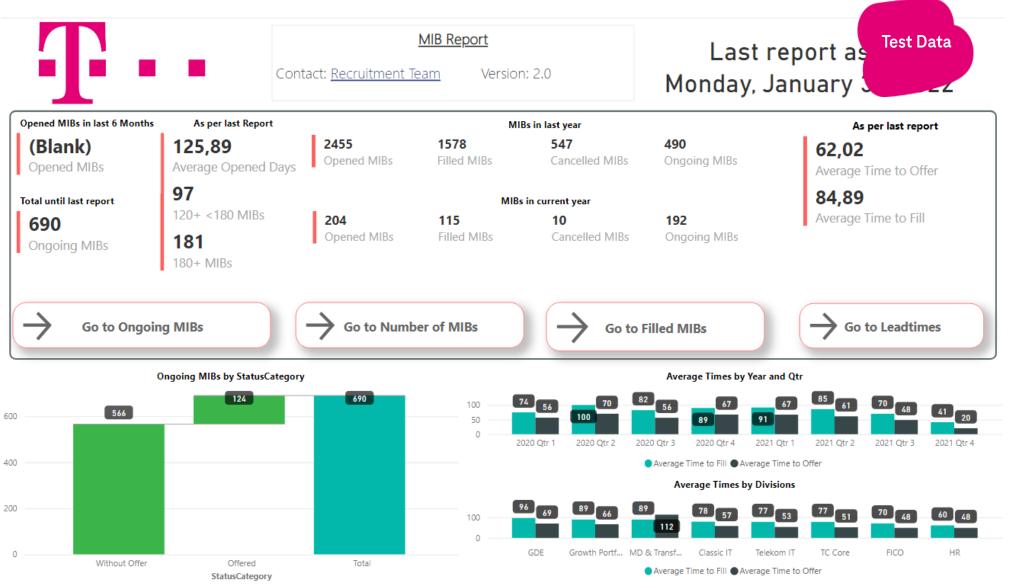
Action point 2

Think in **KPIs**

What questions would you ask to the data?

KPIs need to answer those

Visual From this



Visual To this

Ŧ··	Numbers for SYSO	CompanyName SYSO Test Data
	Ongoing Recruitments 563 Candidate Found	Open recruitments 659
	New Demand 336 Replacement 227	New Demand 391 Replacement 268
	Ongoing Prio1 Recruitments 121 Prio 1 Candidate Found	Open Prio1 recruitments 144
	New Demand 71 Replacement 50	New Demand 87 Replacement 57

KPIs

- Prio1 Demands Data category moved to source system and made it to Dimension
- 2. Time to Offer, Time to Hire Average times to measure Recruitment process
- **3. Dynamic Dimensions and Axis** To avoid page creep
- 4. Squad Capacity Based on theoratical capacity of the recruiters, how many days to fullfill just the current demands





Being excellent means...

You get more work to do 😳

Hunger for information grew

Business driven switch to a cloud base Application Tracking System (ATS)

Resulted in many changes in reporting too

Creative Solutions – AKA If it works..

New system Data API has some boundaries, so we needed PowerShell also to

- Get data from Data API
- Download csv files to landing directory
- And the SSIS to load it into our DB

Alap változók létrehozása

\$LogFile="\$(\$CONFIG.LOGFILEPATH)\\$(get-date -Format 'yyyy-MM-dd-hhmm')_\$(\$CONFIG.LOGFI
"{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", 'Start' | out-file -FilePath

API secret változók beállítása SCLIENT **SCLIEN** SError Etry # API Access Token -t kér # Lekéri egy riport utolsó file -ját \$report_content=(Get-SRReportLastFile -par_access_token \$access_token -par_report_ "{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", "Get last file of report # Array -t készít a riportból #Sreport_content_array=convertfrom-csv -InputObject Sreport_content # Létrehoz egy virtuális drive -ot New-PSDrive -Name "\$(\$CONFIG. PSDRIVENAME)" -Root \$CONFIG. REPORT_DEST_FOLDER -PSPro "{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", "Create PSDrive (\$(\$CONF # Exportálja a riport tartalmát egy file -ba. Export-SRReportContentToFile -content \$report_content -dest_file "\$(\$CONFIG.PSDRIV) "{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", "Export report to: \$(\$00 # Ellenőrzi, hogy létrejött -e a file a cél útvonalon: \$FileCheckError=0 if ((test-path -Path "\$(\$CONFIG.PSDRIVENAME):\$(\$config.REPORT_DEST_FILE_PREFIX)\$(\$ "{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", "Check destination file" # Eltávolítja a virtuális drive -ot Remove-PSDrive -Name "\$(\$CONFIG.PSDRIVENAME)" "{0} {1}" -f "\$(get-date -Format 'yyyy-MM-dd hh:mm:ss')", "Remove PSDrive" | out-f catch {SErrorCount = 1} # Ha hiba történt vagy nem sikerült a file letöltése, akkor levelet küld. gif ((SErrorcount + SFileCheckError) -ne 0) { SEmailSubject = "SmartRecruiters Riport letöltés hib \$EmailBody = "A script az \$(\$env:COMPUTERNAME) cuiter if (SErrorCount -gt 0) {SEmailBody += "A letölt if (SFileCheckError.count -gt 0) {SEmailBody Send-MailMess . EMAIL SENDTO - Subi 'yyyy-MM-dd

Why all of this was a success?

Business commitment and involvement

> Including CxOs

IT (BI) side was driven to have the WILL to UNDERSTAND

And most important: We had one common purpose

What the future looks like?

Re-Work reporting on new data source (ATS) Process mining on recruitment related processes Go ahead of the market – predictive modells

In 2022 - 1150 colleague to hire

Thank you! Questions?

