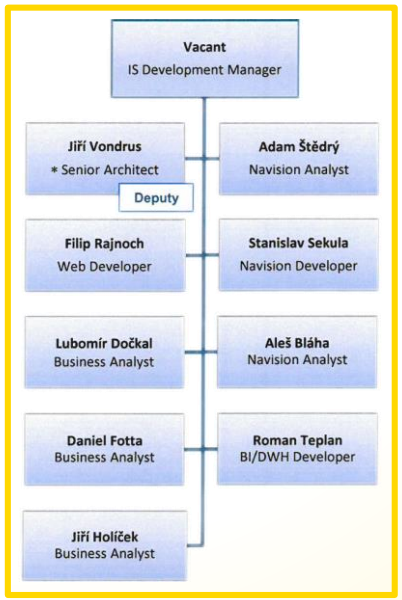
# IT Development in 2017

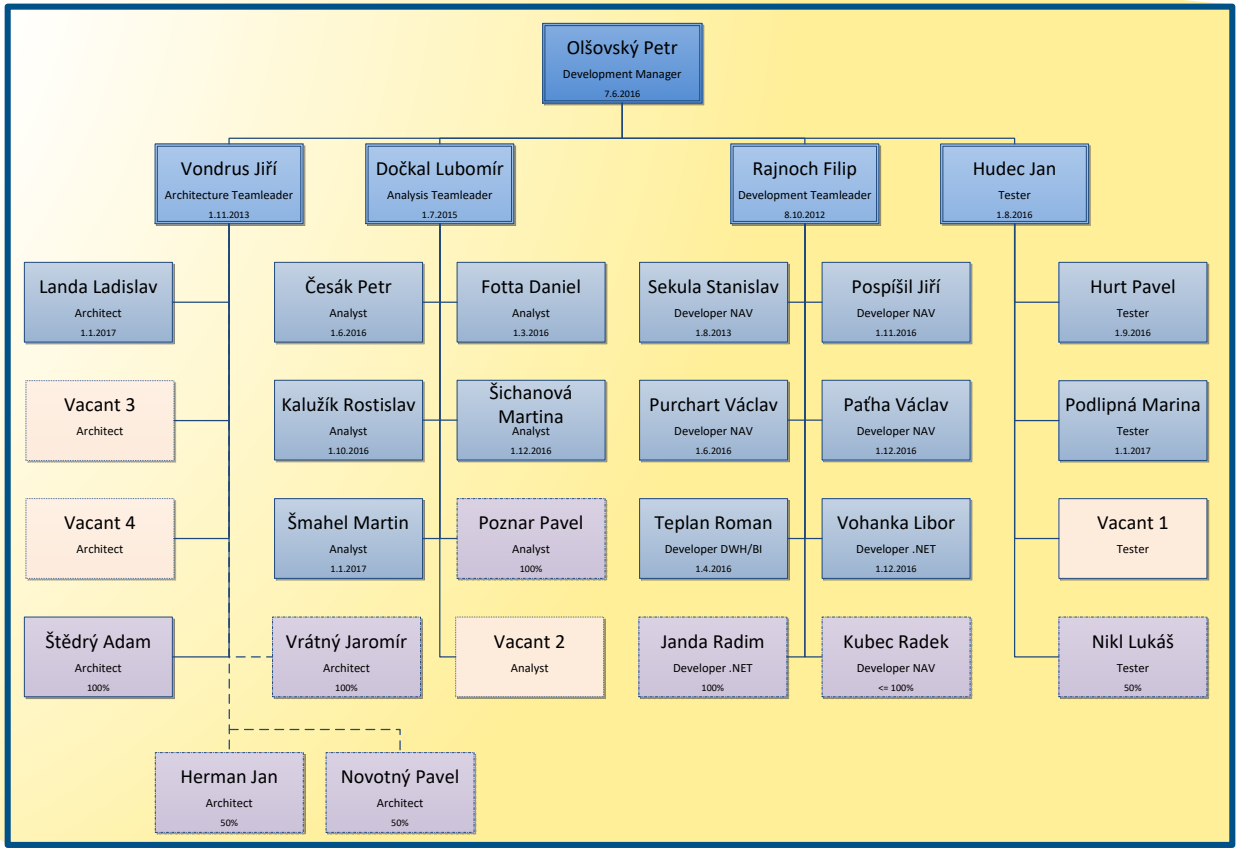
- **Plans?**
  - Projects, transformation
  - Change requests
  - Incidents
  - Service requests

## „Year of stabilization“

## „Improvements? Other plans?“

# IT Development – May 2016 to Jan 2017



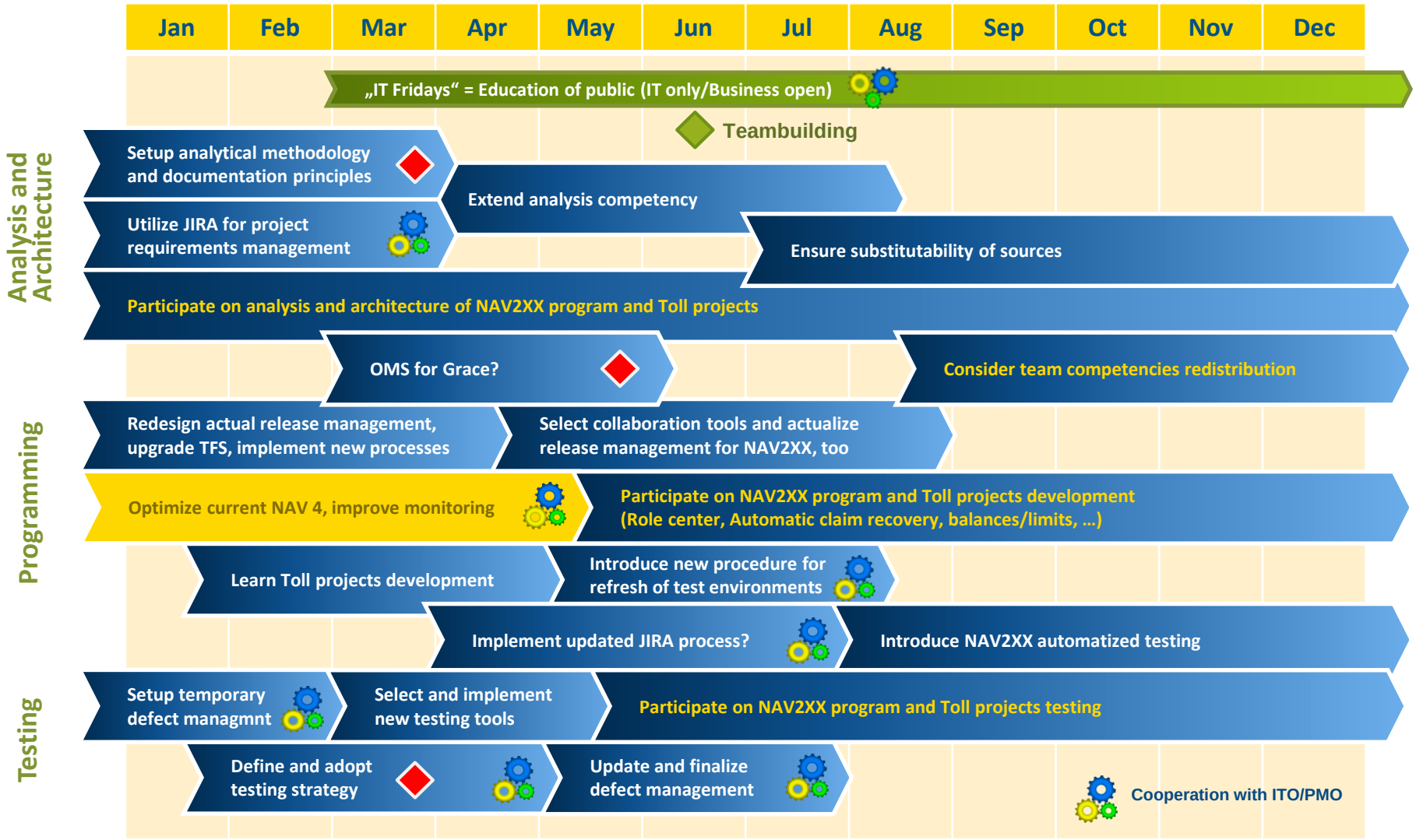
# Management of IT Development team

- **Team and sources**
  - Complete, stabilize, retain and develop internal team
  - Control vendors and contractors
  - Improve and automatize utilization and provisioning of sources
  - Closely cooperate esp. with PMO and IT Operations

- **Open positions & recruitment**
  - IT Architect/Senior consultant – integrations
  - IT Architect/Senior consultant – ERP systems
  - IT/BA Analyst
  - Senior tester/QA specialist
  - MS Dynamics 2013+ Developer
  - MS .NET Senior Developer
  - Testers – contractors (up to 6 persons)

2016

# IT Development in 2017



# Release management redesign (NAV4)

- **Timing**
  - Rigid milestones: End of development, End of testing, End of deployment preparation
  - Minimization of exceptional releases
- **Web deployment**
  - Upgrade of TFS to latest version
  - 3+ separate code branches for „separate“ environments (DEV, TEST, PROD)
  - 1 person responsible for deployment in PROD
- **NAV4 deployment**
  - Implementation of new logic in collaboration table + development of controlling application
  - Collaboration table cleansing, migration into new solution
  - 1 person responsible for deployment in PROD, merging of deployed objects in advance
- **High CDL Systems participation**

# Implement updated JIRA process

- **Demand management**
  - Separate ideas ad features required in future from the real change requests
  - Apply cost-benefit analysis
- **Change management**
  - Register project-related requirements
  - Redesing current projects/queues
  - Implement real Testing step in process
- **Other improvements**
  - Separate development incidents/service request from production ones
  - Allow bugs/defects to be linked to systems/projects/changes
  - ?

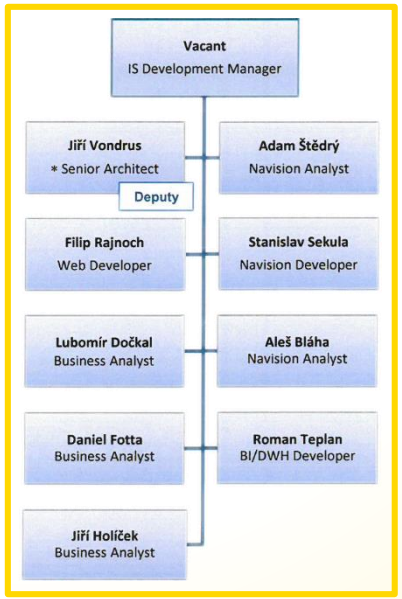
# Optimize current NAV 4

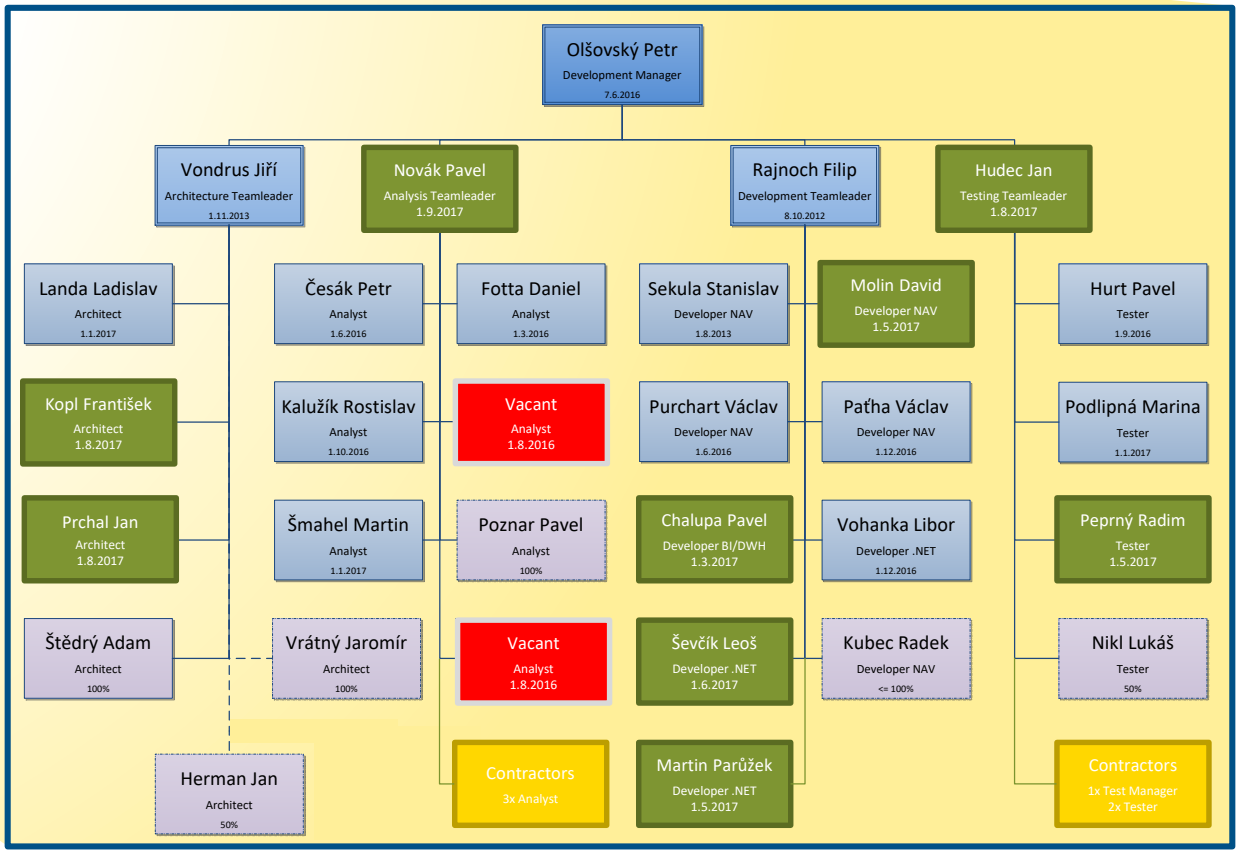
- **Analysis of database**
  - Quality/performance of used views, queries, stored procedures
  - Possibility to archive or delete obsolete data
  - Maintenance and DB optimization: reindexation, partitioning/clustering, data-locking, …
- **Schedulers**
  - Inventory of tasks: functionality, frequency, duration, errorness, alerting, logging
  - Replanning
- **Navision implementation**
  - Check/optimize all demanding/time-consuming functionalities, code-units, procedures
  - Apply ADO instead of NAV-native DB technology wherever possible
  - ?
- **Monitoring**

# July 2017

# Mid-term review

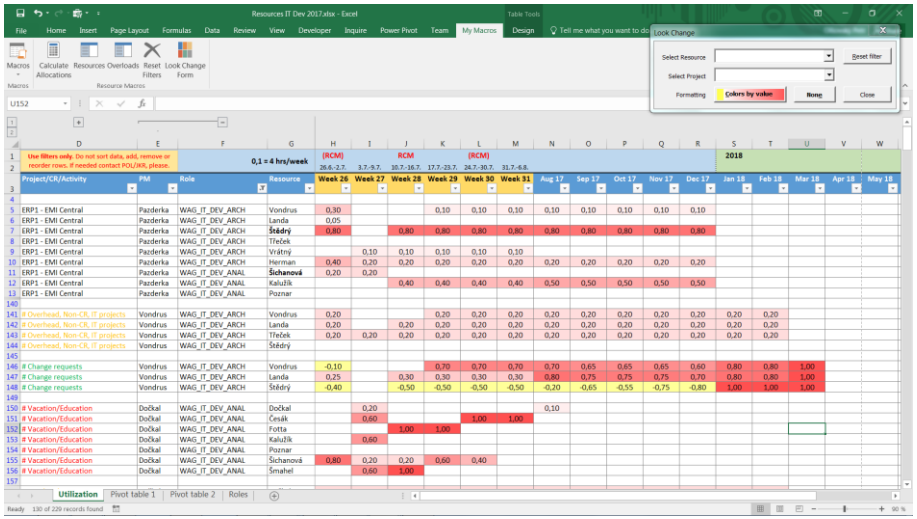
# IT Dev – Recruitment



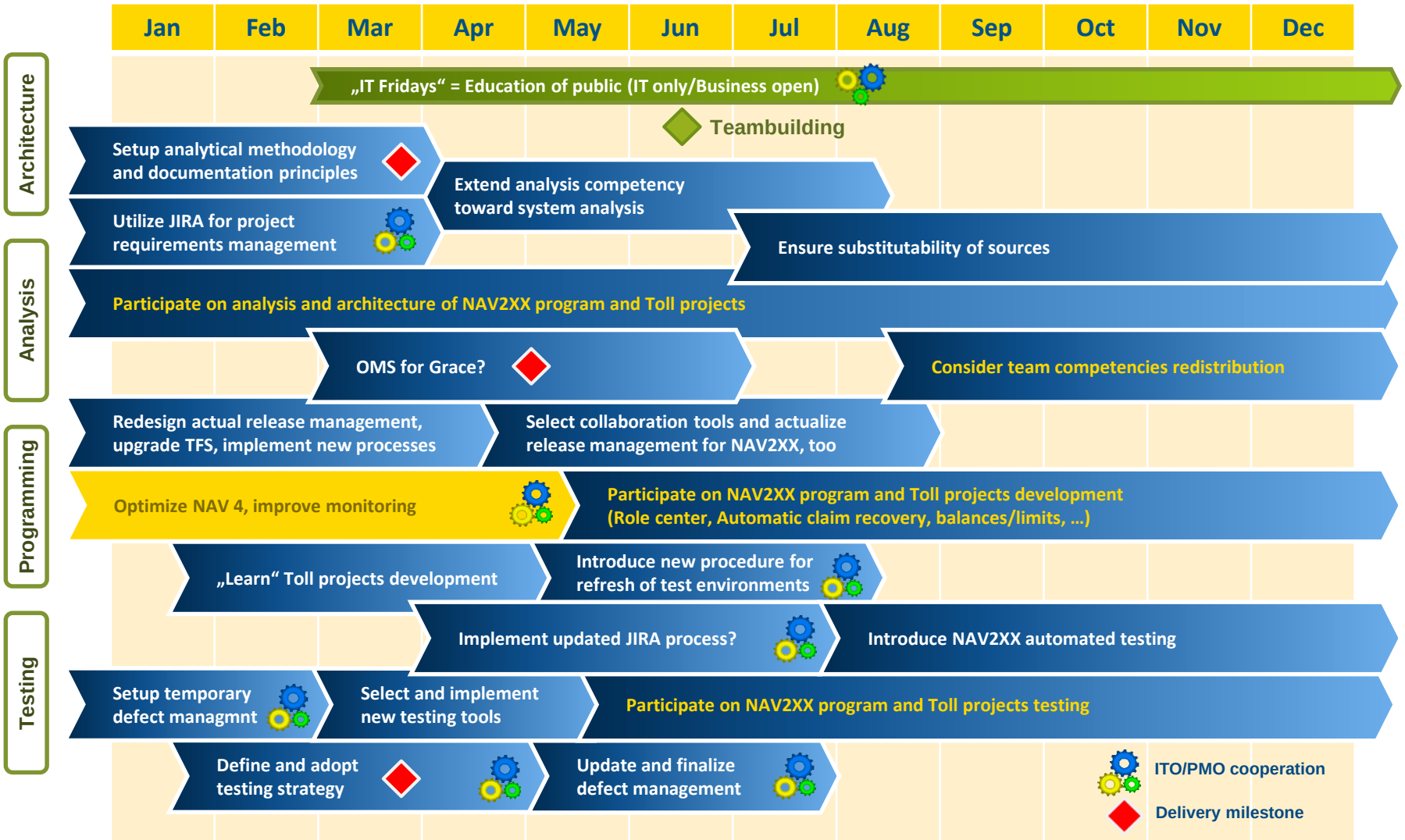



# IT Dev – Management of the team

- **Open positions & recruitment**
  - **IT Analysts**
  - Further recruitment: MS .NET Senior Developers, BI/DWH Developers
- **Team and sources**
  - Team bulit – Stabilize, retain and develop it!
  - Control vendors and contractors
  - Improve utilization and provisioning of resources (cooperation with PMO)



# Plan of IT Dev activities in 2017



# IT Dev – Contribution to projects


- **Participation on projects (architecture, analysis, development)**
  - **ERP**: A. Štědrý, M. Šichanová, R. Kalužík, V. Paťha, M. Parůžek, S. Sekula, Physter
  - **FRED**: L. Landa, K. Třeček, M. Smahel, R. Kalužík
  - **AEQ**: J. Vondrus, J. Herman, L. Dočkal, D. Dřevojánek, Physter
  - **DWH**: P. Chalupa
  - **Tolls**: P. Česák, V. Purchart, L. Vohanka
- **Testing unit**
  - J: Hudec, P. Hurt, R. Peprný, M. Podlipná, L. Nikl + 4 contractors

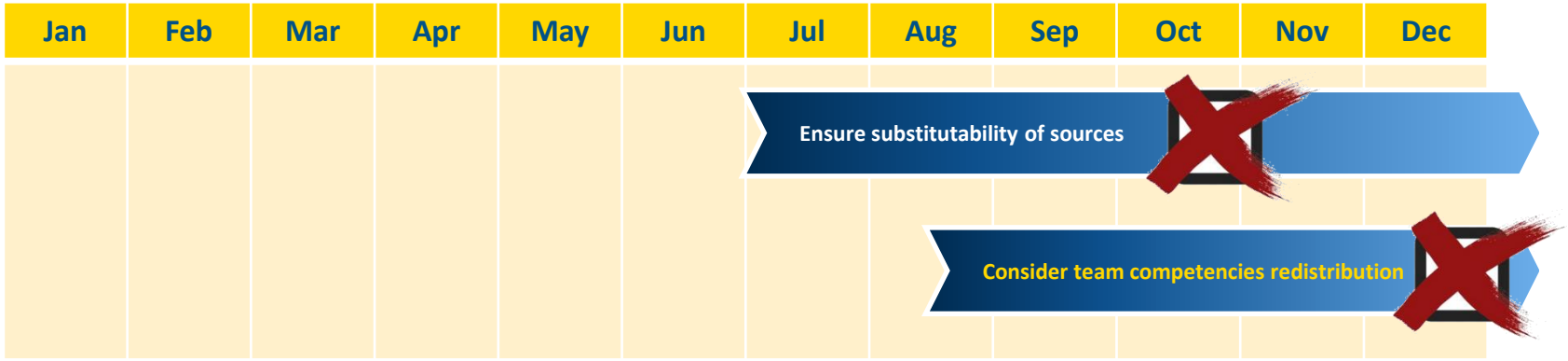
# IT Dev – Team reconstruction

Architecture

Analysis

Programming

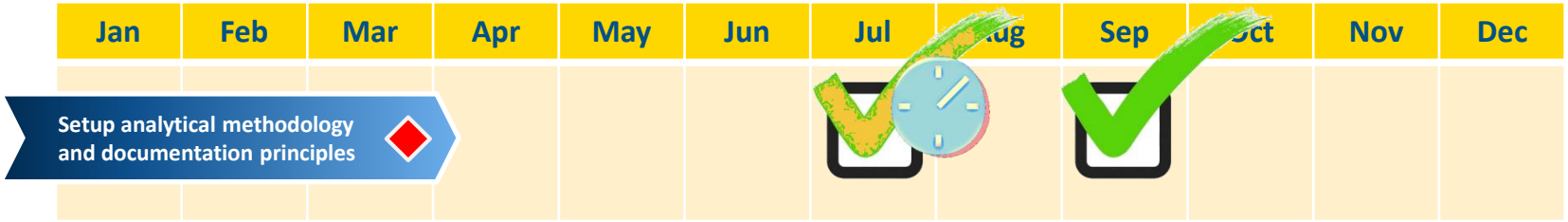
Testing



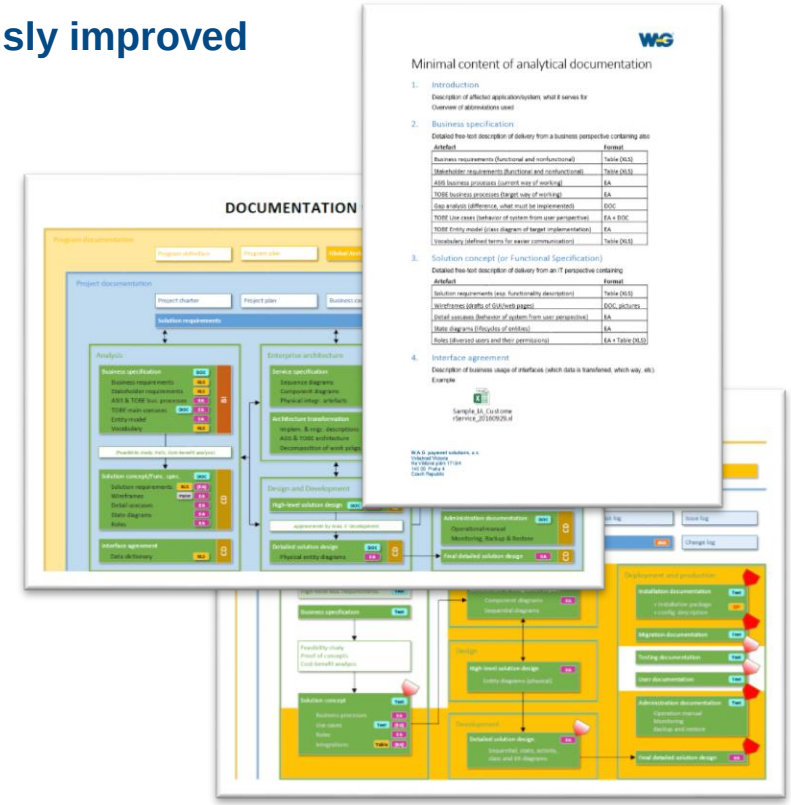

- **Internal wish to start already in spring**
- Caused by a lack of sources
- Not started yet
- **Not late**

# IT Dev – Analytical methodology



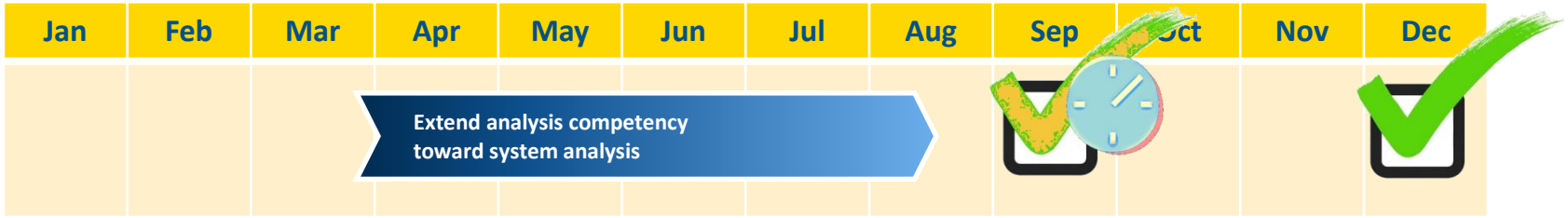



- **Draft developed in Dec 2016, continuously improved**
- **For the first time applied in contract with CDL for ERP I in March 2017**
- Publication several times postponed, last version prepared on 11th May
- Available at Team public documents on **New intranet** Teams webpage
- **Implemented in Enterprise Architect**
  - New improved repository
  - Versioning/merging, validation, stencils
  - RegID (web client for view/approval)
- **Next steps:**
  - Review/approval of methodology
  - Upgrade to EA v13, launch of RegID

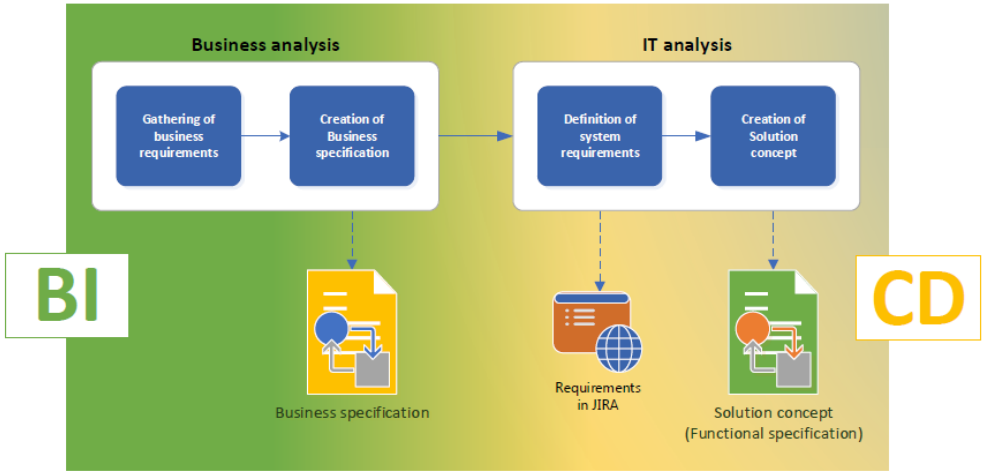


# IT Dev – IT System analysis






- **Defined competencies and split between BI – IT Analysis – Programmers**
- Continuous process requiring a longer time and additional trainings
- Unclear finish date
- **Next steps**
  - IT Analysis teamleader boarding (September 2017)
  - Accelerated recruitment of system analysts
  - Training



# IT Dev – Processing of requirements

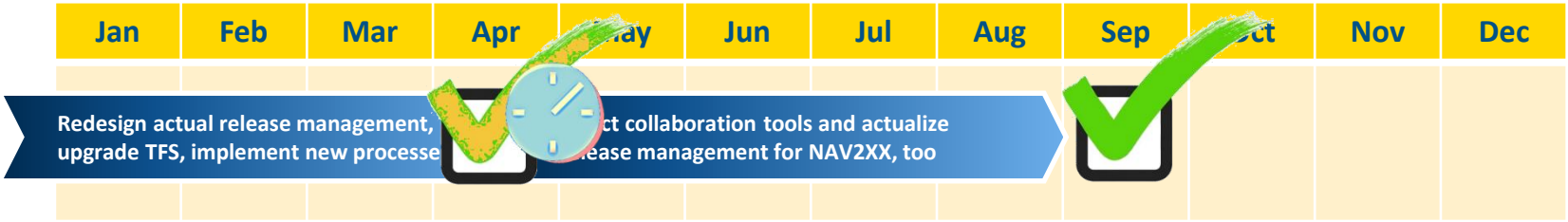

- **Solution designed and implemented in Jira**
- Import XLS template developed and tested
- Partially used/tested in ShopGoods and Aequitas projects
- ERP and FRED requirements procesed using this solution
- Evaluated as complicated and not so user friendly → **Not to be used now**

- **Next steps**
  - Consider another solution probably based on Enterprise architect
  - Unification of requirement procesing accross all the company and projects

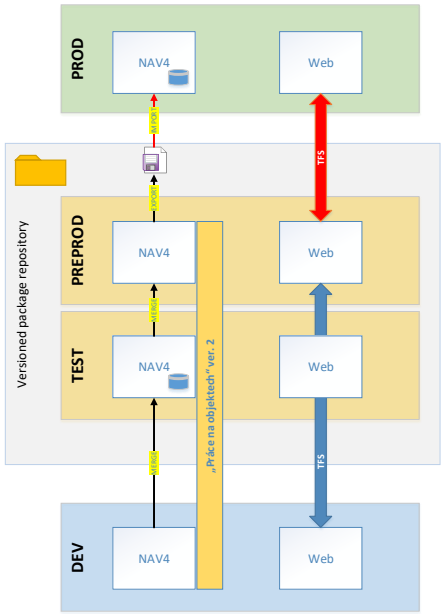
Architecture
Analysis
Programming
Testing

# IT Dev – Release management improvement



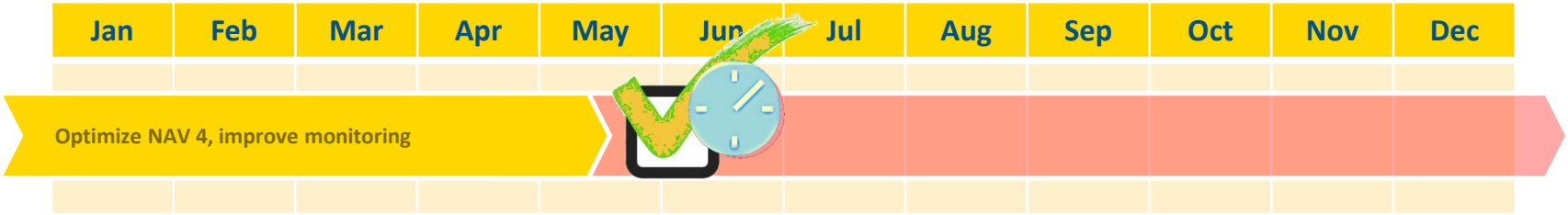



- **NAV 4**
  - „Cooperation on objects“ ver. 2 implemented
  - Process changed
  - Speed significantly increased
    - „Continuous“ release preparation & bulk deployment
    - Hours to 5 minutes!
  - No conflicts, decreased error-rate, **enhanced security**
  - Already used by internal dev. team and also by CDL
- **NAV 2016**
  - OMA (Object Manager Advanced) implemented
- **.NET (Web)**
  - TFS installed, new basic process implemented
  - Planned participation of CDL



# IT Dev – Optimization of NAV 4 (but not only)



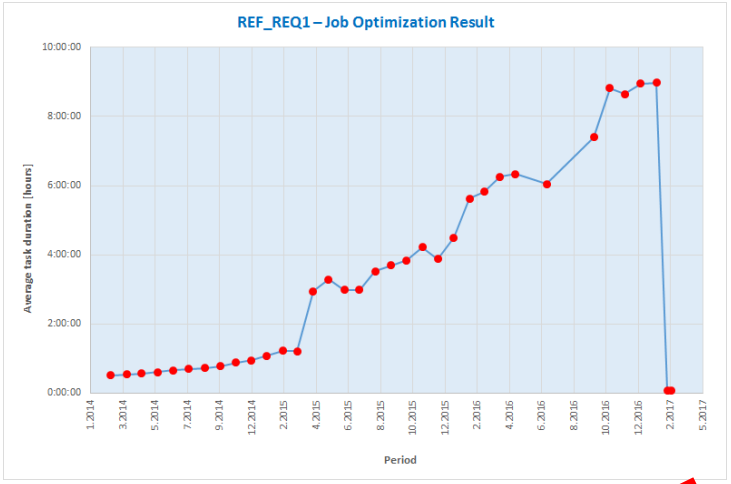


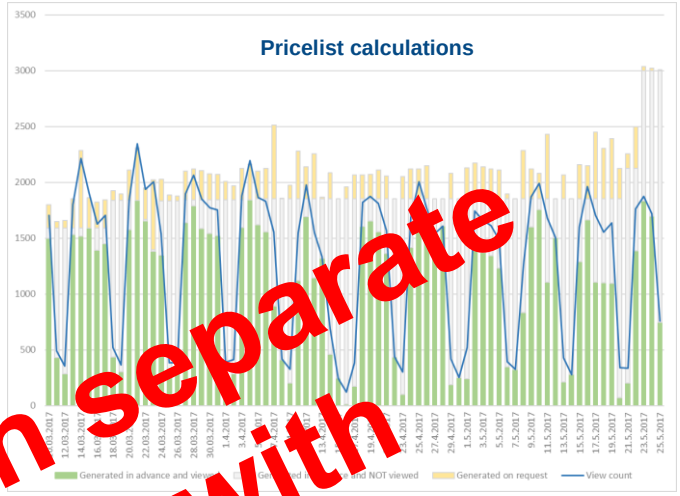

## Achievements so far

- DB maintenance and tuning (indexes, archivation)
- Scheduled tasks optimization (replanning, elimination of unused)
- Pricelists calculation/archivation (partitioning, hours to minutes)
- Pricelists loading in webbrowser (SNAD TO ZAFUNGUJE ☺ 8-15+ → 1 secs)
- Fuel transactions import  (acelerated from 15 to 5 secs)
- Regular refund file imports (8 hours to 15 minutes)
- Fluctuating maturity calculation (20 to 10 minutes)
- Automatich check and repair od PDF generation process
- Orders generation logging, manual jobs logging
- Hiding of document in case of any issue
- Control of SMS/e-mail channels (switch on/of, better management and testing)
- Whitelists processing (improvements, 85 MB to ~1 MB filesize)
- …

# IT Dev – Optimization in pictures

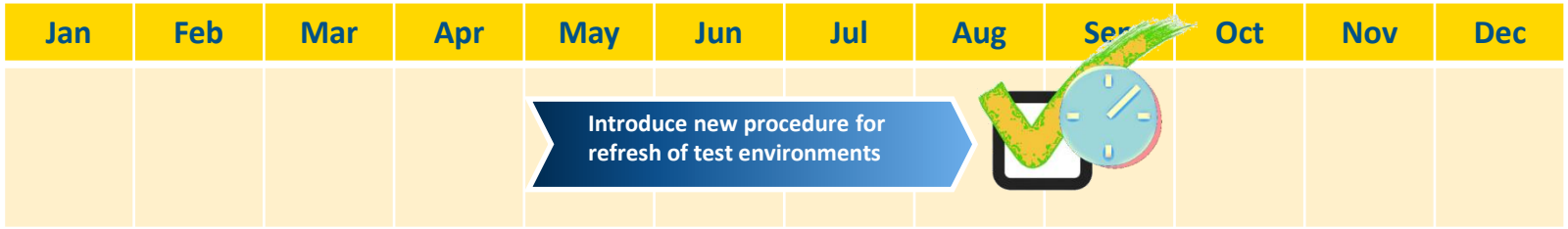
Architecture
Analysis
**Programming**
Testing




Available in separate presentation with more details ☺

# IT Dev – Refresh of test environment




Architecture

Analysis

Programming

Testing

## NAV 4 refresh

- Considered improvement options
- Rename of companies accelerated (from 4 to 2 days)

## Next steps

- Better coordination of other systems refresh (S602, Aequitas, SCRM…)
- Business needs refinement (All data? Companies?)
- Increased automation (scripts, one Code unit)

## New platform refresh

- In development

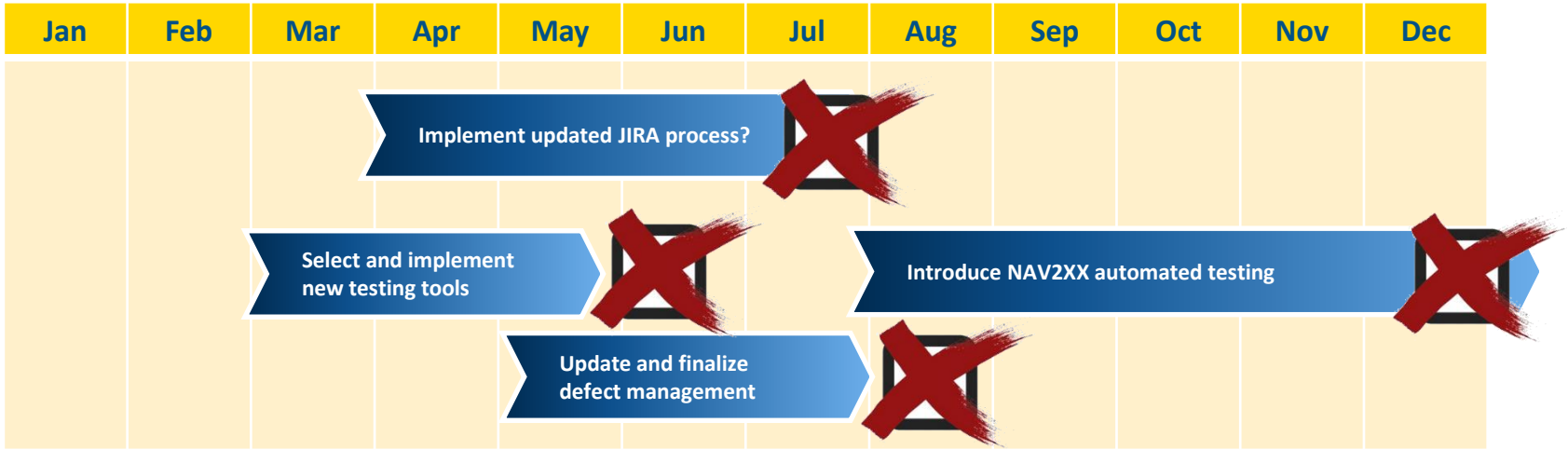
# IT Dev – ChM/RM update, testing tools

Architecture

Analysis

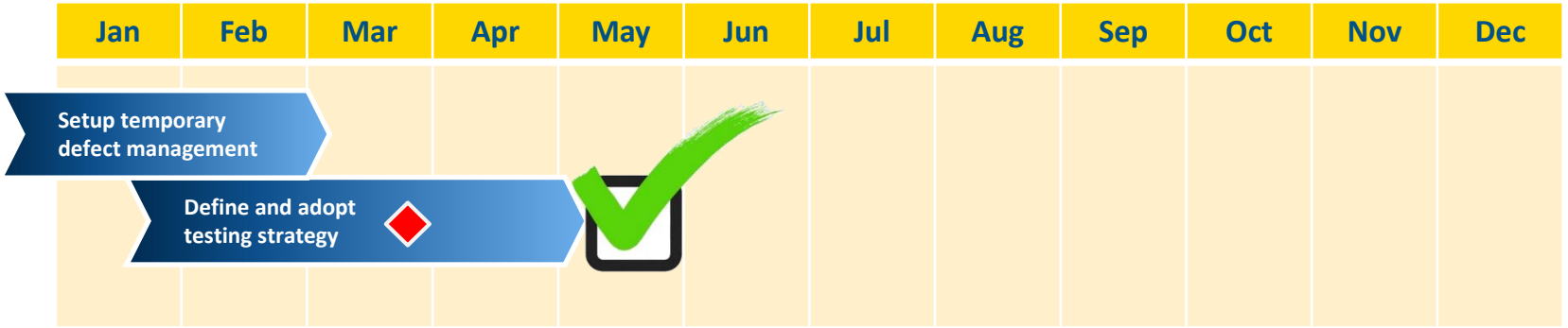
Programming

Testing




- **Postponed due to JIRA vendor replacement and system upgrade**
- **Updated JIRA process**
  - Analysis performed, solution design draft prepared
- **Testing activities**
  - Trialed systems not tested and evaluated (NO test environment available)
- **Automated testing**
  - Not late yet
  - Trial of GUI Master by Globtech

# IT Dev – Testing strategy




- **Temporary defect management**
  - Aequitas I
  - Business WF
  - ERP I
- **Testing strategy**
  - Prepared in time and required quality
  - Immediately applied
  - Available at Team public documents on New intranet Teams webpage

# IT Dev – „IT Fridays“

Architecture

Analysis

Programming

Testing


- **Technical Fridays:**
  - Introduced
  - Planned
  - Realized
- **Participants:**
  - IT Dev
  - IT Ops
  - PMO
- **Next steps:**
  - Use broadcasting
  - Open to anybody
  - Improve it

| Technical Friday (TF) - PLAN | | | | |
|---|---|---|---|---|
| **Planned date for TF** | **Themes** | **Presenter** | **TF result** | |
| 3.2. | Statical Prism - part 1 | V. Purchart | TF completed | #1 |
| 17.2. | Statical Prism - part 2 | V. Purchart | TF completed | #2 |
| 3.3. | Verzování, mergování v EA (+ EA obecně) | P. Poznar | TF completed | #3 |
| | SSRS - analýza reportů | R. Kalužík | | |
| 17.3. | New STENCIL - WAG BPMN 2.0 | P. Poznar | TF completed | #4 |
| | Power BI | R. Kalužík | | |
| 31.3. | Business workflow (DMS for APPROVAL WORKFLOWS) | P. Česák, P. Hurt | TF completed | #5 |
| | Collectora - New software for late collections | P. Česák, P. Hurt | | |
| 21.4. | Intro - představení a záměr Technických Fridays. Tabulka zdrojů, dokumentace na programu. | P. Olšovský | TF completed | #6 |
| | Programme management | H. Opalkova | | |
| 12.5. | Shop goods | K. Třeček | TF completed | #7 |
| 26.5. | AFS - antifraud systém | J. Vondrus | TF completed | #8 |
| 30.6. | Aequitas - Phase 1 | J. Hudec | TF completed | #9 |
| **July-August summer TF break** | | | | |
| 1.9. or 8.9. | | | | #10 |
| | * INFO: Podklady pro odprezentovaná témata v rámci TFs naleznete ve složce | Podklady k prezentacím. | | |
| | | | | |
| | **other themes for TF:** | | | |
| | RegID | P. Poznar | | |
| | Nová metodika business analýzy | L. Dočkal | | |
| | Import Transformation requirements to Jira | R. Kalužík, L. Dočkal | | |
| | Synchronise requirements JIRA x EA | P. Poznar | | |
| | NAV16 - Phase 0 EWMC with P-Pro | R. Kalužík, M. Šichanová | | |
| | BI/DWH - Phase 1 GL all | R. Kalužík, D. Fotta | | |

# IT Dev - Teambuilding

Architecture

Analysis

Programming

Testing

| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Teambuilding | | | | | | |

- Rafting on the rivers Salza and Enns, Austria
- 22 people


# IT Development in 2017

## Business generated activities

- Projects, transformation
- Change requests
- Incidents
- Service requests

## „Year of stabilization“

## „Improvements? IT internal activities?“