

AP  PULSE

BUSINESS
CONTINUITY.
ENSURED.



CURRENT SITUATION



Long problem management chain

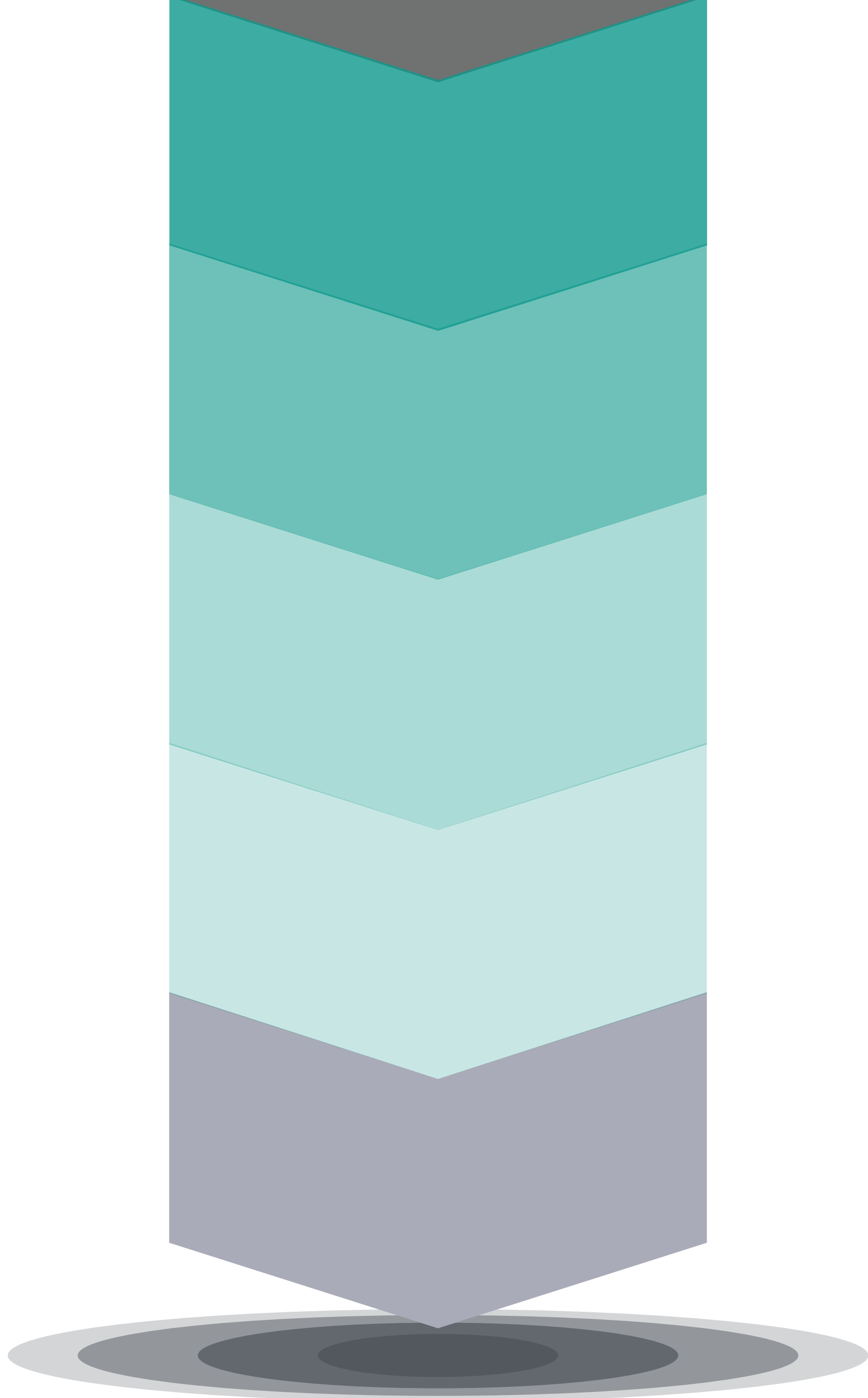
Human glue factor and other problems in MF business applications support



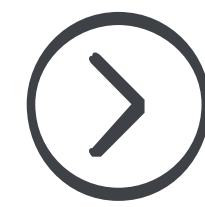
Complex and time-consuming procedures of MF problem detection, analysis and resolution

Strong dependence on external system support teams

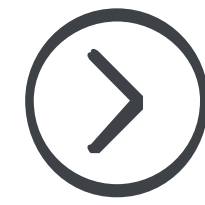
Business applications distributed on different z/OS servers without single entry point for their control



ENSURED BUSINESS CONTINUITY



Centralized support platform for users (L1/L2 support), business applications, z/OS servers and subsystems



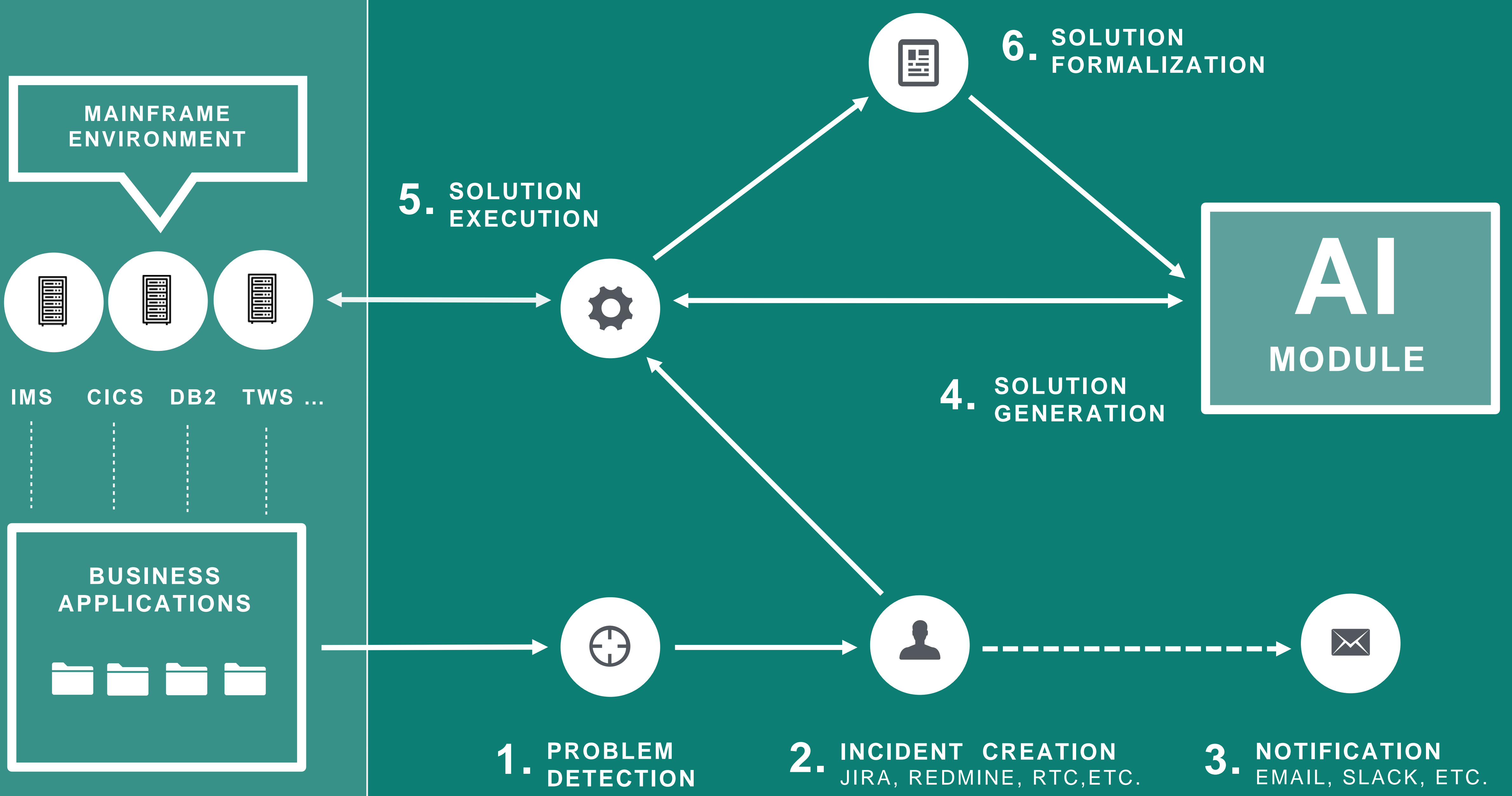
Full support cycle: proactive problem detection, automatic ticket creation and assignment. Various types of notifications, solution generation and execution

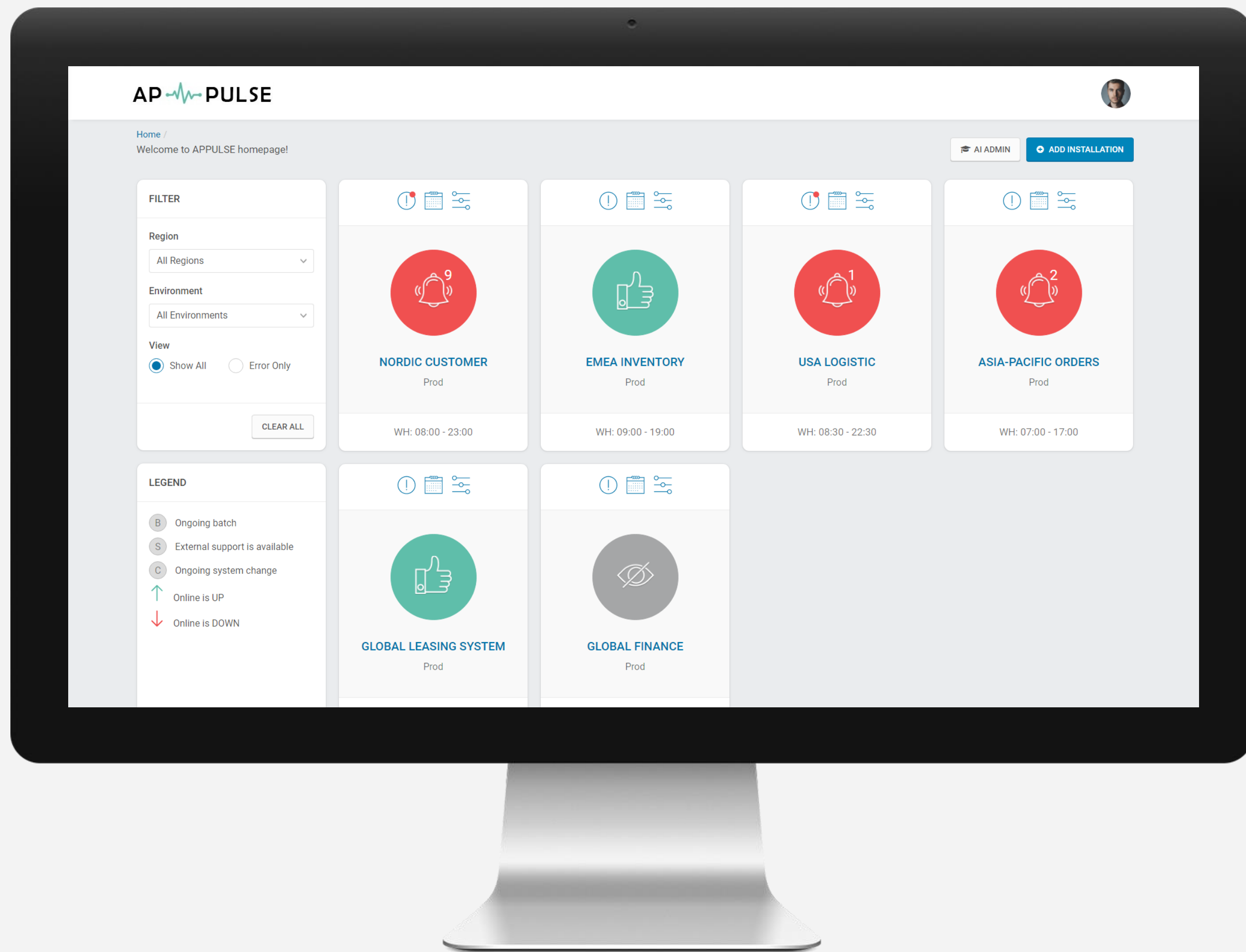


AI module for solution generation



No additional software to be installed on z/OS server





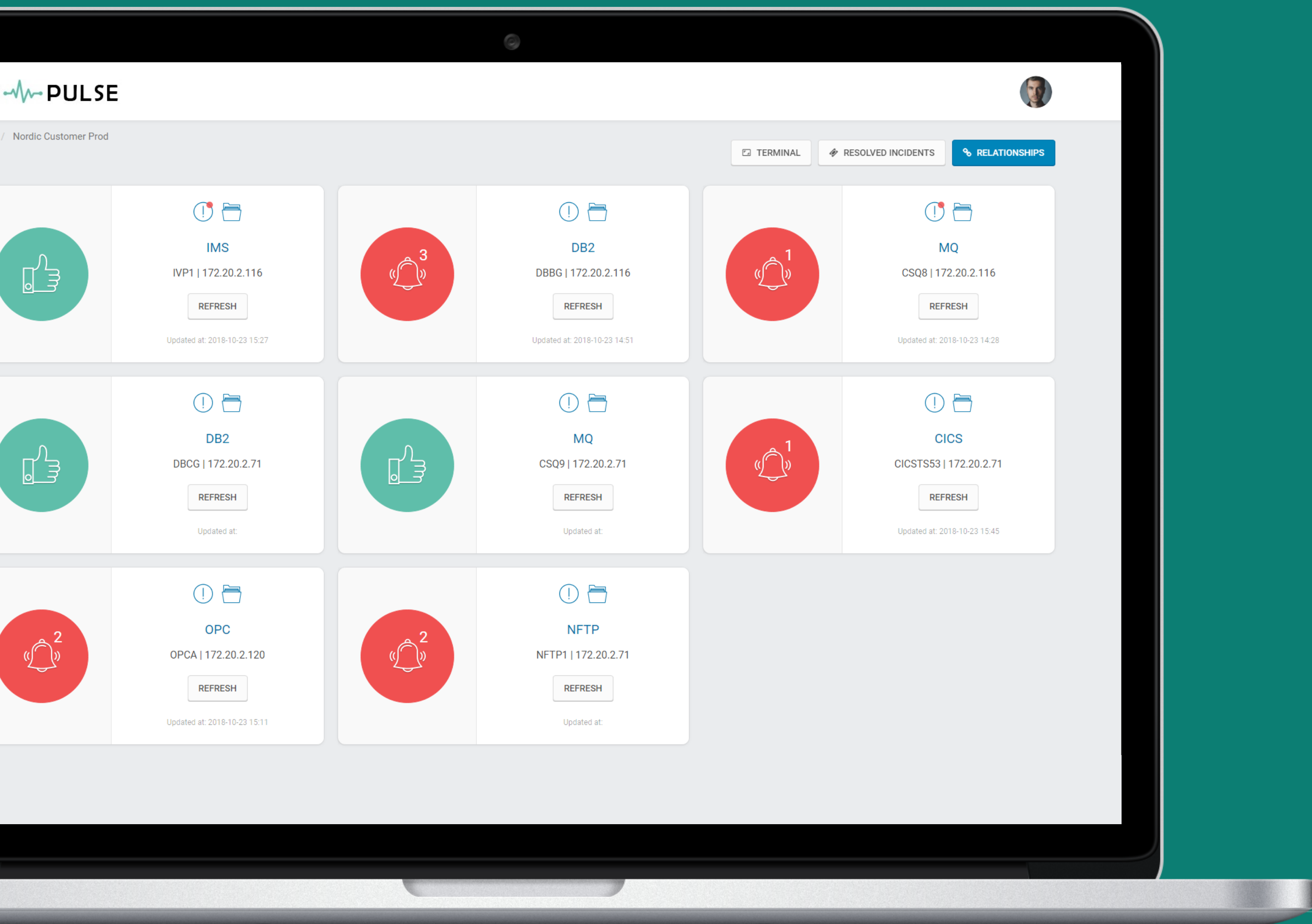
CENTRALIZED SUPPORT PLATFORM

DIFFERENT
business applications

running on
DIFFERENT z/OS servers

supported by
DIFFERENT users (L1/L2 Support)

are integrated into
SINGLE CENTRALIZED PLATFORM



FLEXIBLY CONFIGURABLE MONITORING

Monitoring for operational business applications' problems in z/OS subsystems, including :

- > IMS
- > CICS
- > DB2
- > MQ
- > TWSz
- > nFTP

SHORTER PROBLEM MANAGEMENT CHAIN

OPTION #1

- Automatic creation & assignment
- Jira, Redmine, RTC, GitLab integration

OPTION #2

- Mail and messenger notification
- Slack, Telegram integration

OPTION #3

- Chat creation
- Slack and Sametime integration

The screenshot displays the AP PULSE incident management interface. At the top, it shows the breadcrumb path: Home / Nordic Customer Prod / Incidents in DB2 (DBBG) on 172.20.2.116. Below this, there are filters for Status (All), Severity (All), List View (All, Assigned to me), and a Search bar. The main area contains a grid of incident cards. Each card shows an incident number (e.g., #128, #130, #127, #131, #129, #126), a title, a status (NEW, IN PROGRESS, RESOLVED), and severity (SEV 2). The cards also list the assigned person (ALEH LAPUSHANSKI), reported and assigned times, idle time, and the number of objects. Buttons for CHAT and ASSIGN are visible on each card. The bottom right card shows a resolved time of 2018-10-24 14:23.

OPTION #4

- Constant problem feedback

SOLUTION GENERATION & EXECUTION



Execute solution generated by AI module or implement your own



Transfer problem to relevant system support

The screenshot displays the AP PULSE interface for incident #128. The main heading is "TABLESPACE IS IN COPYPENDING STATUS (LAPUSHA.UNIVERT.TS1)". The status is "SUBMITTED" with a severity of "SEV 2".

Incident Details:
Home / Nordic Customer Prod / Incidents in DB2 (DBBG) on 172.20.2.116 / Incident 128
Incident #128

AI Solutions:
A bar chart shows the top 3 solutions:

- 91% - REP_COPY DB2 TS (JCL)
- 7% - REORG DB2 TS (JCL)
- 0% - STA&REP_COPY DB2 TS (JCL)

Solution Interface:
JCL (selected) | TRANSFER SOLUTION | SUBMIT SOLUTION

Solution Code:

```
1 //LAPUSHAD JOB (),'REPAIR DB2 TS',REGION=2M,  
2 // MSGCLASS=,CLASS=A  
3 //REPAIR EXEC DSNRPROG,SYSTEM=DBBG,  
4 // LIS='DSNB10.SDSNLOAD',  
5 // UID=''  
6 //SYSTIN DD *  
7 REPAIR SET TABLESPACE UNIVERT.TS1 NOCOPYPEND
```

Results of the run:
JESMSG LG | JESJCL | JESYSMSG | OTHER

```
1 JES2 JOB LOG -- SYSTEM S0W1 -- NODE S0W1  
0  
16.20.22 JOB00941 ---- WEDNESDAY, 24 OCT 2018 ----  
16.20.22 JOB00941 IRR010I USERID LAPUSHA IS ASSIGNED TO THIS JOB.  
16.20.23 JOB00941 ICH70001I LAPUSHA LAST ACCESS AT 16:20:22 ON WEDNESDAY, OCTOBER 24, 2018  
16.20.23 JOB00941 $HASP373 LAPUSHAD STARTED - INIT 2 - CLASS A - SYS S0W1  
16.20.23 JOB00941 IEF403I LAPUSHAD - STARTED - TIME=16.20.23  
16.20.23 JOB00941 - --TIMINGS (MINS.)-- ----PAGING COUNTS----
```

ASSIGNEE:
ALEH LAPUSHANSKI
ALapushanski@ibagroup.eu

SOLUTION HISTORY:

- 2018-10-24 14:15 Incident 128 was created
- 2018-10-24 16:18 Incident 128 was assigned to admin
- 2018-10-24 16:20 admin submitted solution 45 using MVS userid LAPUSHA

Formalize solution

SAVE

Template name* Subsystem Interface

Objects impacted: 1 [view all](#) Object type: Queue Status code: OVERFLOW

Description
Empty MQ Queue to sequential datasetdataset

GLOBAL PARAMETERS - \${} SPECIFIC PARAMETERS - %{}

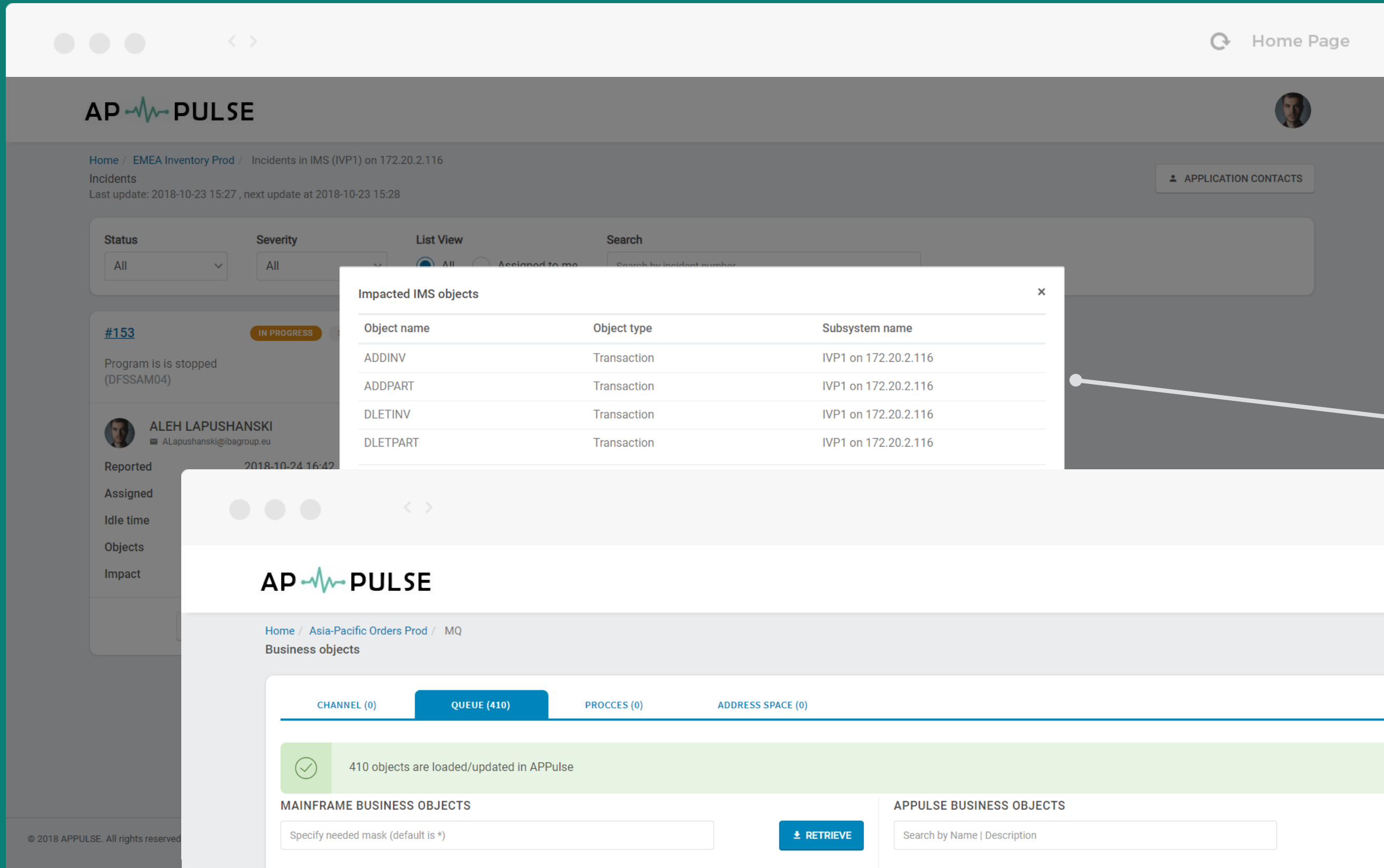
Name	Value	Description
SUBSYSTEM_NAME	CSQ8	
FTP_PORT	21	
FTP_PROTOCOL	FTP	
MQ_SERVER_CHANNEL	SYSTEM.ADMIN.SVRCONN	
MQ_SCSQANLE	CSQ800.SCSQANLE	
MQ_SCSQAUTH	CSQ800.SCSQAUTH	

```
1  /*${USERID}$ JOB (${JOB_ACCOUNTING_INFO}), 'SAVE AND EMPTY QUEUE', REGION=L,
2  MSGCLASS=H, CLASS=${JOB_CLASS}
3  /* Delete dataset
4  /*DELLIB EXEC PGM=IKJEFT01
5  /*SYSEXEC DD DUMMY
6  /*SYSPRINT DD SYSOUT=*
7  /*SYSPRINT DD SYSOUT=*
8  /*SYSIN DD *
9  DELETE 'LAPUSHA.LOAD.MQ'
10 /*
11 /* Copy MQ queue messages to dataset
12 /*COPY EXEC PGM=CSQUTIL, PARM='${SUBSYSTEM_NAME}'
13 /*STEPLIB DD DISE=SHR, DSN=${MQ_SCSQANLE}
14 /* DD DISE=SHR, DSN=${MQ_SCSQAUTH}
15 /*OUTPUTA DD DSN=LAPUSHA.LOAD.MQ, DISE=(NEW, CATLG),
16 /* SPACE=(CYL, (5, 1), RLSE), UNIT=SYSDA,
17 /* DCB=(RECFM=VBS, BLKSIZE=23200)
18 /*SYSPRINT DD SYSOUT=*
19 /*SYSIN DD *
20 COPY QUEUE(@{MQ_QUEUE}) DDNAME(OUTPUTA)
21 EMPTY QUEUE(@{MQ_QUEUE})
22 /*
```

8:16

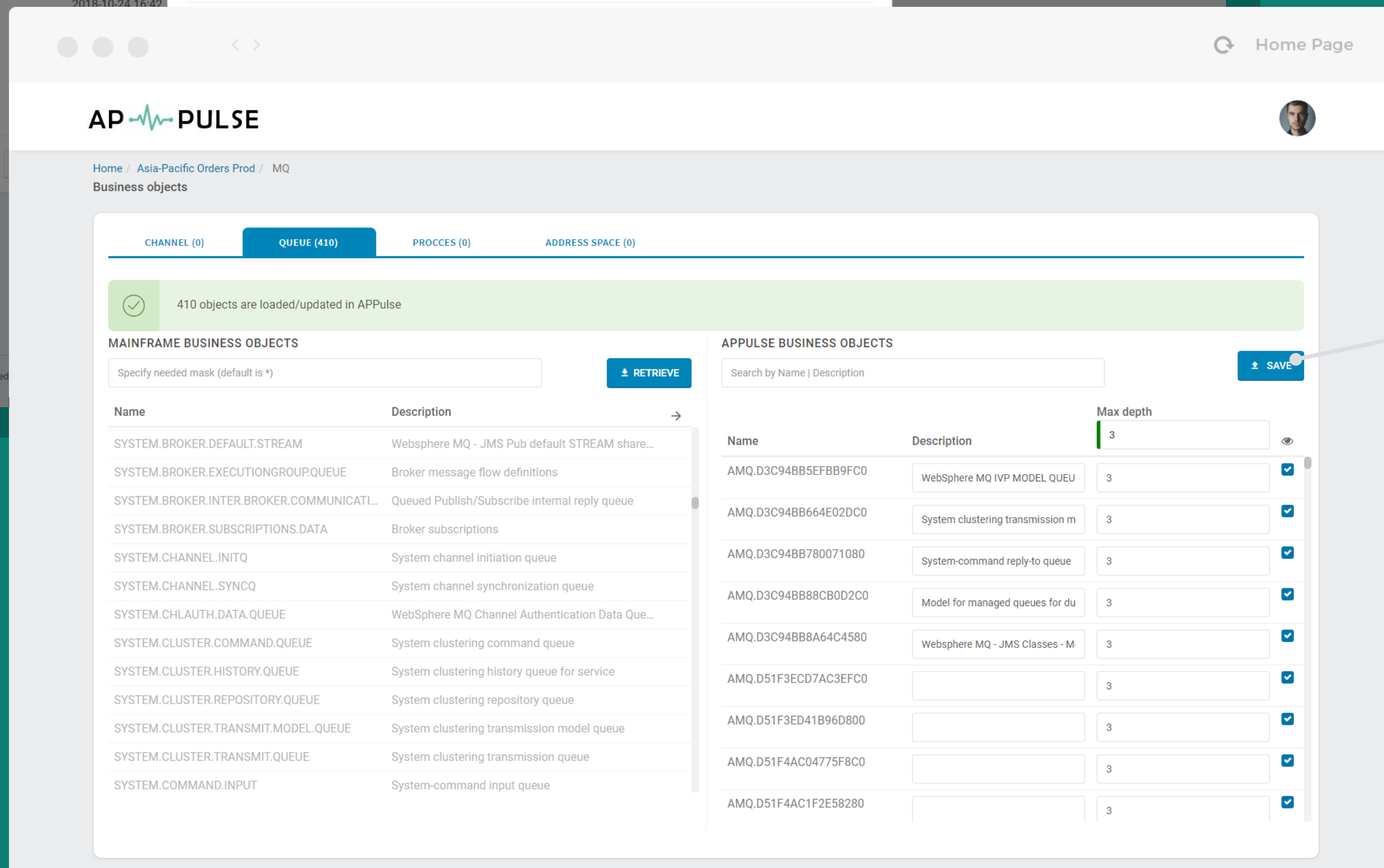
RE-USAGE OF SUCCESSFUL SOLUTIONS

Formalization of successful solutions for training of neural network



BUSINESS OBJECTS MODEL SUPPORT

Business impact information



Retrieval of business objects from z/OS server and loading to APPULSE for further control

IMS (IVP1) 172.20.2.116	DB2 (DBBG) 172.20.2.116	MQ (CSQ8) 172.20.2.116	DB2 (DBCG) 172.20.2.71	MQ (CSQ9) 172.20.2.71	CICS (CICSTS53) 172.20.2.71
----------------------------	----------------------------	---------------------------	---------------------------	--------------------------	--------------------------------

Enter command: /DIS A

Command output:

```
>/DIS A
REGID JOBNAME TYPE TRAN/STEP PROGRAM STATUS CLASS
3 IMS13M11 TP WAITING 1
4 IMS13J11 JHP WAITING 1, 2, 3, 4
  JBPRGN JBP NONE
  BATCHREG BMP NONE
2 IMS13F13 FPM NO MSG. DBFSAMP3
  DBTRGN DBT NONE
  IMS13RC1 DBRC
  IMS13DL1 DLS
VTAM ACB OPEN -LOGONS ENABLED
IMSLU=N/A,N/A APPC STATUS=DISABLED TIMEOUT= 0
OTMA GROUP=DTSCIMS STATUS=ACTIVE
APPC/OTMA SHARED QUEUE STATUS - LOCAL=INACTIVE GLOBAL=INACTIVE
APPC/OTMA SHARED QUEUES LOGGING=N
APPC/OTMA RRS MAX TCBS - 40 ATTACHED TCBS - 2 QUEUED RRSWKS- 0
APPLID=IMS13CR1 GRSNAME= STATUS=DISABLED
TCP/IP GENIHOST= STATUS=DISABLED
LINE ACTIVE-IN - 1 ACTIVE-OUT - 0
MODE ACTIVE-IN - 0 ACTIVE-OUT - 0
*18297/164752*
>
```

CLEAR OUTPUT

Command list

- /DISPLAY ACT**
Use the /DISPLAY ACT command to display region and DC information associated with an IMS system. The region is scheduled to an application program and the IMS resources are assigned.
- /DISPLAY APPC**
Use the /DISPLAY APPC command to display inquiries about LU 6.2 related activities, including the current outbound LU if it is different from the base LU.
- /DISPLAY CONV**
Use the /DISPLAY CONV command to display all BUSY and HELD conversations in the IMS system if no other keywords or parameters are specified.
- /DISPLAY DB**
Use the /DISPLAY DB command to display the status of the specified databases. If a specified database is a DEDB, the associated DEDB areas are also displayed.
- /DISPLAY DBD**
Use the /DISPLAY DBD command to display, for databases that are being accessed, their type, the PSBs accessing them, and the type of access.
- /DISPLAY LTERM**
Use the /DISPLAY LTERM command to display status and queue counts for the specified logical terminal name.
- /DISPLAY MODIFY**
Use the /DISPLAY MODIFY command to display online change status for this IMS, which is participating in a local or global online change.
- /DISPLAY NODE**
The /DISPLAY NODE command, when followed by a valid node name or ALL, displays status, queue counts, and number of

EASY MAINFRAME SUPPORT



Common terminal for subsystems (IMS, CICS, MQ, DB2)



Integrated code editor with syntax highlight support



Retrieval of subsystem information:

- Status of master address spaces
- Status of connections to external subsystems
- Address spaces logs highlighting severity messages
- Option to get description of abend

01.

Business continuity due to early
problem detection and resolution

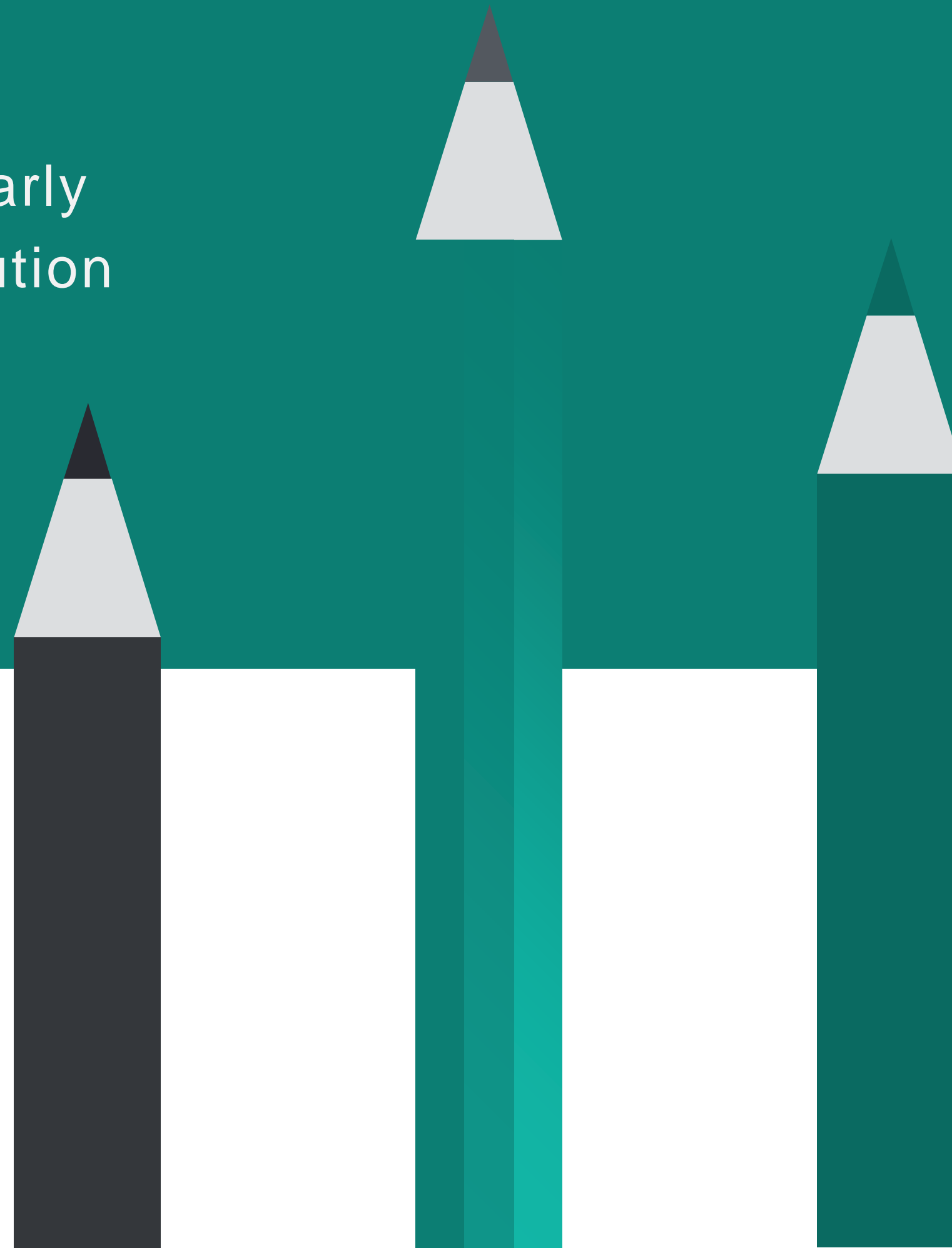
02.

Easy MF application support using
AI platform for solution generation

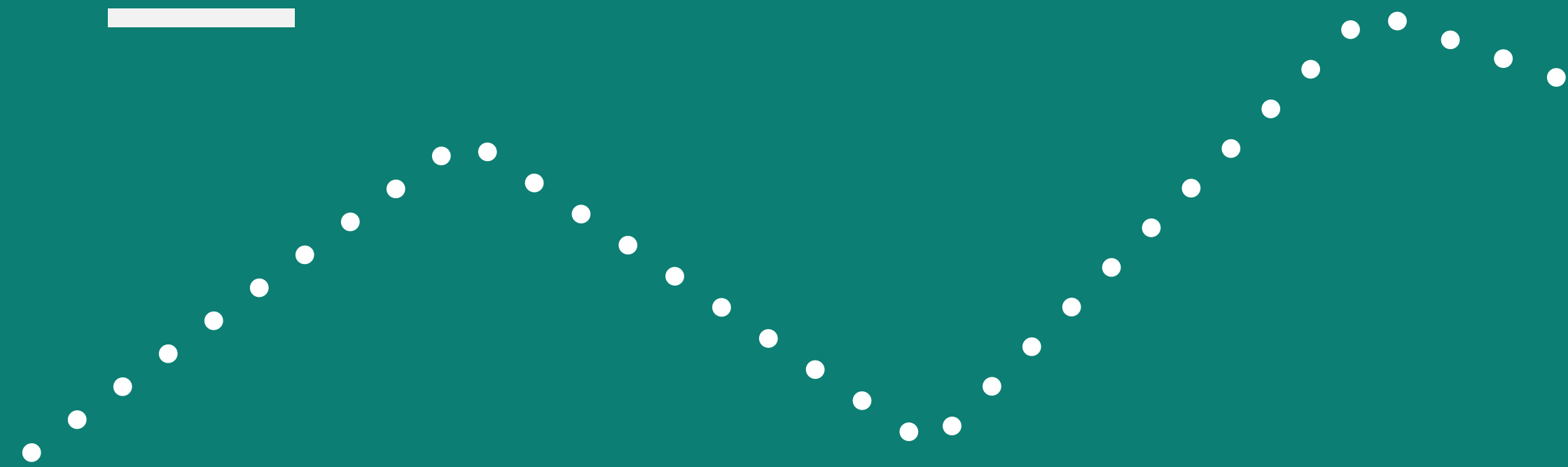
03.

Increased performance
of support teams

WHAT YOU
GET



THANKS FOR
ATTENTION



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APPULSE Product Manager



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