

HSEplus[®]



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HSEplus[®]



No activity can be significant and urgent to affect human health, safety and the environment.







HSEPlus Main Elements

- It not only covers all aspects required by ISO 45001, but clearly goes already beyond
- It is accessible from any place and on any platform, where Internet is available
- HSEplus provides end-to-end solutions
- It makes you do things right and on time
- Actions and to do list are placed on HSEPlus calendar, e-mails in application notifications



1.Conceptual Elements2.Technical Elements





HSEPlus Vision & Mission

- -What is our strategic OHS vision?
- **HSEPlus: HSE vision is zero** (working without occupational accident & Illness)
- -What is our current OHS environment?
- **HSEPlus:** Existing situation analysis (AS-IS)
- -What OHS environment do we want to achieve?
- **HSEPlus:** Entirely ISO 45001 Conformity (TO-BE)
- -What business requirements need to be met to achieve the OSH vision?
- **HSEPlus**: Proactivity, Workers Participation, Improving OHS Culture, Benefit Sustainability
- -What IT requirements need to be met to achieve the OHS vision?
- HSEPlus: Centralized Database, Web Based & Mobile Application, Desicion

Making Support System

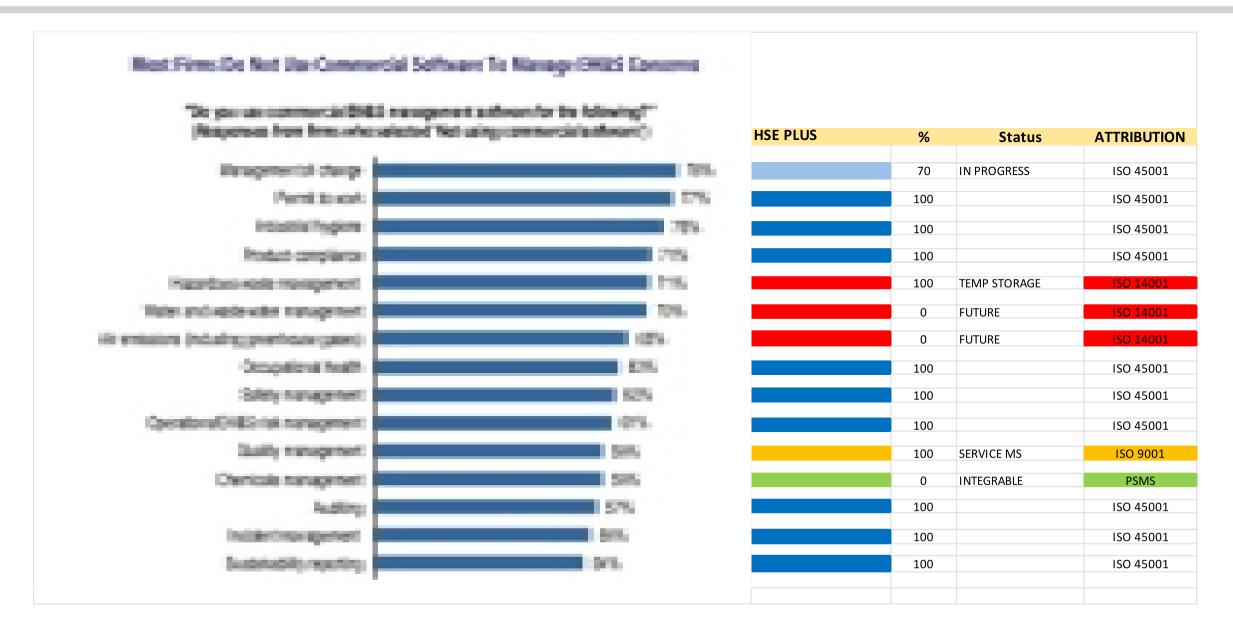


HSEPlus Vision & Mission

- -What resources are required to achieve the OHS vision?
- HSEPlus: Trained and qualified personnel, certified equipment, effective maintenance, certified & appropriate materials, occupational hygiene measurements
- -What specific actions will be taken to achieve the OHS vision?
- **HSEPlus**: Risk based management (Dynamic Finding Management, Effective preventive and corrective actions & tracking)
- -How will OHS accountability be allocated and enforced?
- **HSEPlus**: Assigning right person for the right job, performance evaluation
- -How will the OHS strategy be measured, reviewed and revised as needed?
- **HSEPlus:** HSE KPI's & evaluation, management review (BI reporting)
- -How will the EH&S strategy adapt to future organizational changes?
- **HSEPlus:** Management of change



Comparison with Needs and Standards





HSE Process Management System – Main Basis

IBYS

(27/2/2018)



ISO 45001

(12/3/2018)

TSO 45001

6331 OHS Act (30.06.2012)

- Legal Compliance
- Avoiding Legal Sanctions

CSGB

T.C. CALIENA VE SOSIAL GÜVENLE BAKANLIĞI

Avoiding Legal Penalties (TCK (TPC) 5237, 5510 SSGSS (SSGHI), 6098 BK (Code of obligations)

Refer to the related laws

ISO 45001 (12.03.2018)

- Manageability
- Maintainability
- Effectiveness
- Sustainability
- Continual Improvement
- PDCA

Refer to ISO 45001:2018

IBYS Integration (30.06.2012)

Workplace Information Management System

- National Decision
 Support Systems
- OHS Statistics
- Electronic Inspection

Refer to ibys.gov.tr



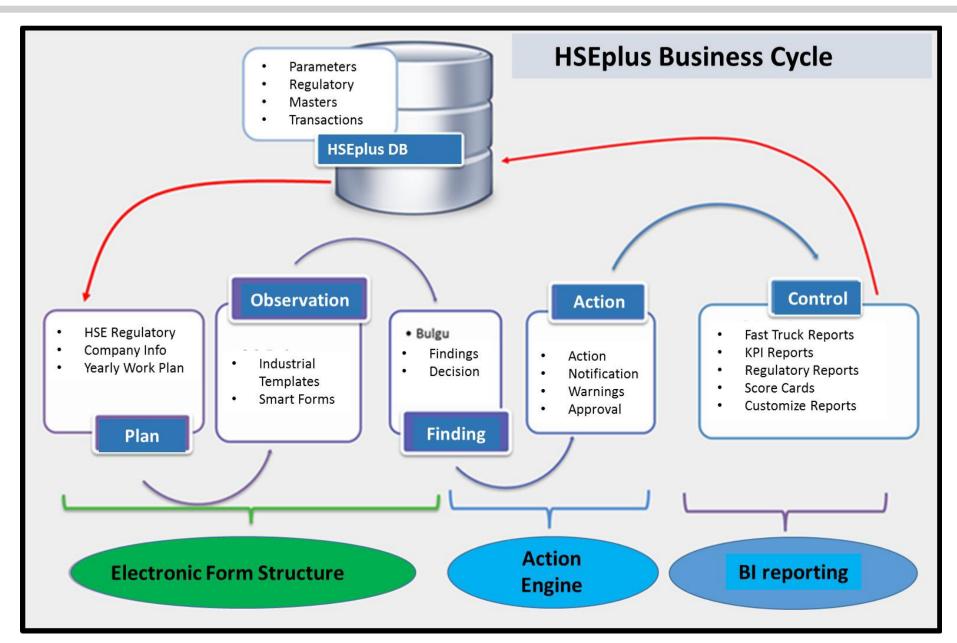
Process Approach

- Preventing accidents with a **Proactive** (Preventive) approach instead of a reactive (Defensive) approach.
- To reduce damage in case of accident with Emergency Plan and Exercises.
- Preventing recurrences with "Root Cause" studies after the accident.
- To ensure the active participation of all employees and to develop a sustainable OHS Culture.

Reduce Damage (%15) Proactive Activities + Employee Participation (%80) Feedback (%5) Health Accident Reporting & Analysis Job Safety **Training & Documentations** Response -Yearly Work Plan -Periodical Health Records -Accident Notifications -Regulatory Training -Periodical Side Visit -Medical Service and Support -Vocational Training -Occupational Illness -Risk Assessment -Medical Monitoring -Remote Training & Quiz -Root Cause Analysis -Finding Management -Occupational Illness Tracking -Daily Toolbox Emergency -Periodical Equipment Inspection -HSE News & Announcements -Work Place Exposure Reporting & Analysis -Procedures, Instructions, Guides -H&S Team Meetings -Regulatory Reports -ERP Drill -Fast Track Reports **Employee Participations** -Work Permit -Management KPI's -Unsafe Acts & Conditions -BI Reporting -Near Miss **FEEDBACK**



HSEplus Business Cycle

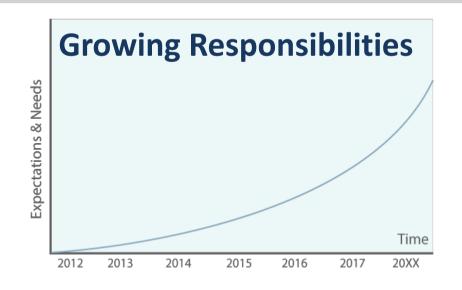




How preparatory are you for the future?

1. Scope

- ANNEX SL
- 2. Normative References
- 3. Terms and Definitions
- 4. Context of the Organization
- 5. Leadership
- 6. Planning
- 7. Support
- 8. Operation
- 9. Performance Evaluation
- 10. Improvement



ISO 45001 OHS Management Standards published in March 12th, 2018

Integration & Compliance with other ISO Standards

- ISO 9001 (Quality)
- ISO 14001 (Environmental)
- ISO 27001 (Information Security)
- ISO 55001 (Asset)
- ISO 31000 (Risk Management)



ISO 45001 Objectives & Benefits

- ➤ Specify OHS Policy and Targets Leadership and Commitment
- ➤ Dissemination of OHS Culture
- ➤ Identifying the hazards related to the activities, defining and classifying the risks and specifying the control measures
- Specify the occupational trainings related to the legislation, working environment, PPE and certificates etc. and monitoring the assigned staff
- Increasing the awareness about hazards and risks, providing the workers to play active roles
- ➤ Evaluating and improving the OHS performance planning the appropriate measures and actions

PDCA Cycle





Digitalization

Can all these be achieved by good old pen & paper?





Digitalization

Can all these be achieved by good old pen & paper?





Scope of HSEplus

HSEplus is an all-encompassing safety management system that allows safety professionals to manage all safety related activities within one system, such as:

- HSEPlus Platform
- Location Management
- Organisation Management (Hierarchy)
- Employee Management & Task Descriptions
- Dashboard & Calender Management
- Action and Notification Management
- Procedure & Document Management
- HSE News & Announcements
- Emergency Plan and Drill
- HSE Committee Meetings & Minutes
- Hazard Communication
- Risk Assessment & Corrective Actions
- Checklist and RA Templates
- Employee Participation (NM, SOC etc)

- Medical Assessment & Monitoring
- Occupational Illness Tracking
- Education / Training Management
- Remote Training & Online Quiz
- Toolbox Trainings
- Equipment Management & PPD
- Contractor & Sub Contractor MS.
- Permit to Work
- Accident Reporting & Root Cause
- Occupational Hygiene Measurement
- Regulatory Reports & Drill Down
- Score Cards
- HSEPlus Analitics (KPI Reporting)
- Entegrated Mobile Applications (Native)







ROBOTIC & DYNAMIC METHODS IN HSE MS

HSEplus Technical Approach

>>Shortcut Integration 'Site to BI'>>



Compliance **Evaluation of** Staff & Equipment



-Dynamic Findings

- Nearmiss
- Hazardous Behaviors & Situations





- Action Tracking & Closeout
- Site Checklists









HSEplus



HSEanalytics

HSEmobile



Technical Status of HSEplus

| | 1990s-2005 | 2005-2014 | 2014-2020 | |
|----------------------|--|--|---|--------------|
| Supplier Landscape | Rapid growth of site-level application | Maturing market through acquisitons | Private equity and venture captial firms investing in suppliers | |
| Software Focus | Data warehousing and management | Data management, analysis and reporting | Data management, analysis, reporting and performance optimization | % 100 |
| Software Integration | Manual interfaces and document uploads | Integration with other enterprise software and systems | Development of native mobile apps with offline functionality | % 100 |





HSEplus is a module of IntraPrise.

HSE Plus is built on IntraPrise modular application webbased platform, designed to be integrated within itself, while it can be fully compatible with other ERP systems(SAP, LOGO, ORACLE / SQL Base Applications) to simplify and perfect the workflow for the corporations.

Robotic System

HSEPlus values human life as much as profitability. Therefore, it is designed to eliminate human mistakes that causes incidents and loss. It's **intelligent HSE robot** technology is the strongest asset among it's competitors that plans neccessary works required by the compliance.





"More Than HSE Application"



Technical: HSE Robot

Leave the workload to it, you focus on.

The HSE Robot has the ability to assist the responsibilities in the works, to prevent potential data mistakes, to provide reminders and warnings as an HSE Expert.

- -It facilitates OHS operations based on the **Location** and **Classification of Hazards** by means of existing matrices.
- -Coordinates the mandatory and intended trainings, staff with or without training are listed, warns the next training on time.
- -Coordinates the site visits of Occupational Safety Expert and Occupational Physician based on the number of employees and reconcile
- -Coordinates the assignment of HSE and Emergency Teams.
- -Provide the draft of Annual Action Plan (AAP) to be prepared.



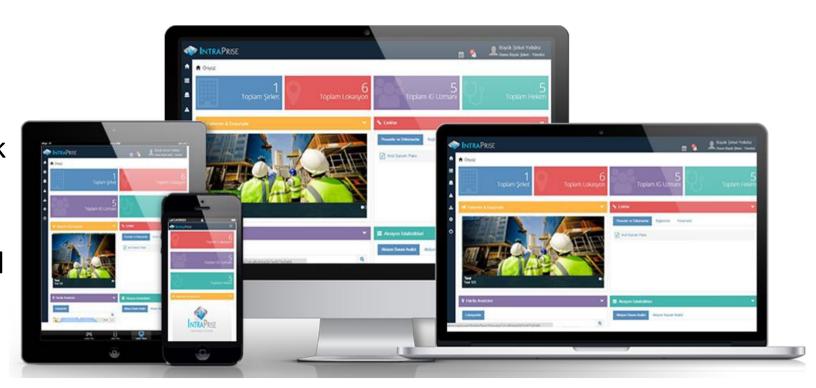


Easy to use & technological compliance

Responsive (Adaptive) design

HSEplus has been developed on the basis of **recently adopted technologies** to facilitate the work of users.

It is a well-known, uncomplicated design reducing the challenges and difficulties of work done.



From personal computers to tablets and smartphones, there is a structure to be used in every environment.

The frontal design which can be customized according to task descriptions makes the work more fun.



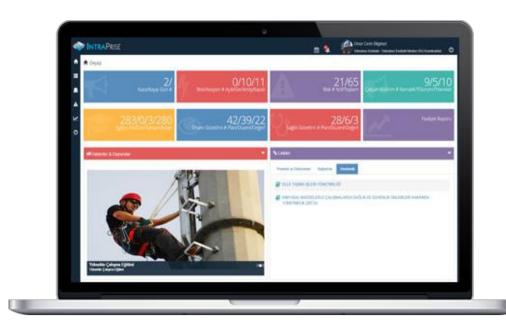
User Frienly Screens

Eeasy To Use – Contemporary Design

IntraPrise aims availability. Designing an application for users to enjoy using is very important. User experience and functionality are the fundamental of application development. IntraPrise is designed by taking this fundamental into the consideration.



Dashboard is exclusively customized. There is no need for unwanted stuff taking space on your dashboard. Users will see only things that are related to their workflow.



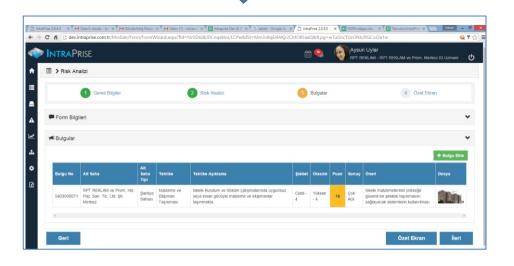


HSEDUS Creating instant (dynamic) findings & notifications

Pen and paper out!

- -Creating Quick Findings by means of Tablet, Defining the non-comformity by using the risk assessment and checklists.
- -Sending the near miss, hazardous situation and hazardous behavior notifications with photo through Android and IOS apps with smart mobile phones.



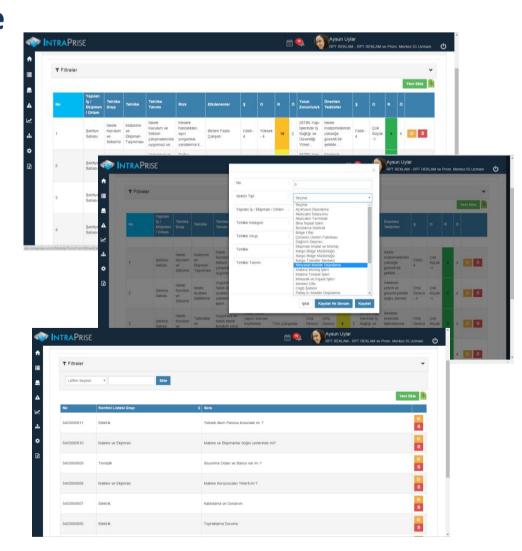




Customized RA & Checklist Templates

Ready and Costumized Template Creation Structure

- A large number of pre-prepared Risk Assessment Templates based on key sectors
- Company-specific, the ability to create their own templates by experts.
- Ability to create checklists with (Y/N) or score which can be prepared for special operations by the company.
- Ability to drive new templates from existing or created templates.
- Ability to create Risk Assessment form versions from templates.





E2E Integration

End to End Solution

HSEplus is engineered to minimize data entry time and provide accurate reports on every level and aspect of the business anywhere at anytime. It is **completely Interactive and User Friendly.**

It Makes You Do Things Right & On Time!

Robot **plans** according to compliance and reminds duties of HSE Director, HSE Expert, Doctor by assigning them actions / tasks. REMEMBER - PDCA!

Never Miss An Action / Task

There is no place for forgotten tasks. **HSEplus action engine** is designed to create, follow, report principles.
Therefore **there are no actions unreported** in the system.
Actions are placed on Google / Outlook Calendars, Emails, In application notifications.





Dynamic Findings Management

Industrial RA

Templates

Continuous HSE Management

Bringing the risks to minimum level takes constant attention on the situation. HSEPlus target is to provide grounds for every situation not to be overlooked.



Employee Participation

Near miss Unsafe Acts & Conditions

Notification

Main Finding Pool

Risky findings can come from any HSE forms and actions as seen on the graph. Findings are alive until action is assigned, taken and reported.



Corrective & Preventive Actions

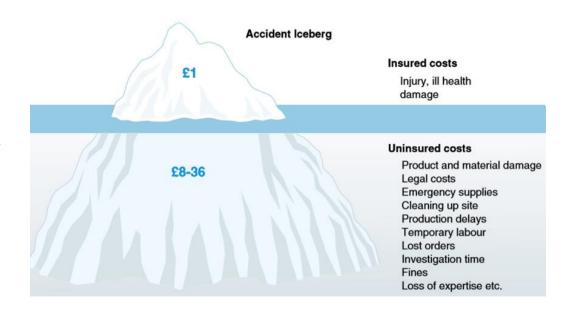
Corrective and Preventive Actions

HSEPlus comes very strong at this point. Unfortunately, experiences have indicated that, risk assessment is not the sole solution to problems. HSEPlus does not tolerate risks to be overlooked. Finding management will not allow any risk closures without taking and reporting any action to lower that particular risk value.



Steps of Findings Management

- Root Cause Analysis related to Findings.
- Action Assigned (one or more) to Responsibles.
- Cost & Benefit Identification.
- Revision & Mitigation.
- Elimination of Findings
- Closeout.





Management and Evaluation

Smart reports, quick decisions.

HSEplus helps the managers to decide the correct decision providing the **best formatted**, **reliable data** at **the right time and** from **everywhere**.

It allows to navigate through the data from summary to detail on the digital and graphical images.

- Scorecards
- Quick reports
- Managerial and analysis reports
- Operation reports
- Decision support systems (Qlick Sense)





Access the information from office, air, cafe and anywhere where Internet is available!



Information Level

Global



National Authority
National Decision



Corparate Management- KPI



Team Leader – Grouping Information

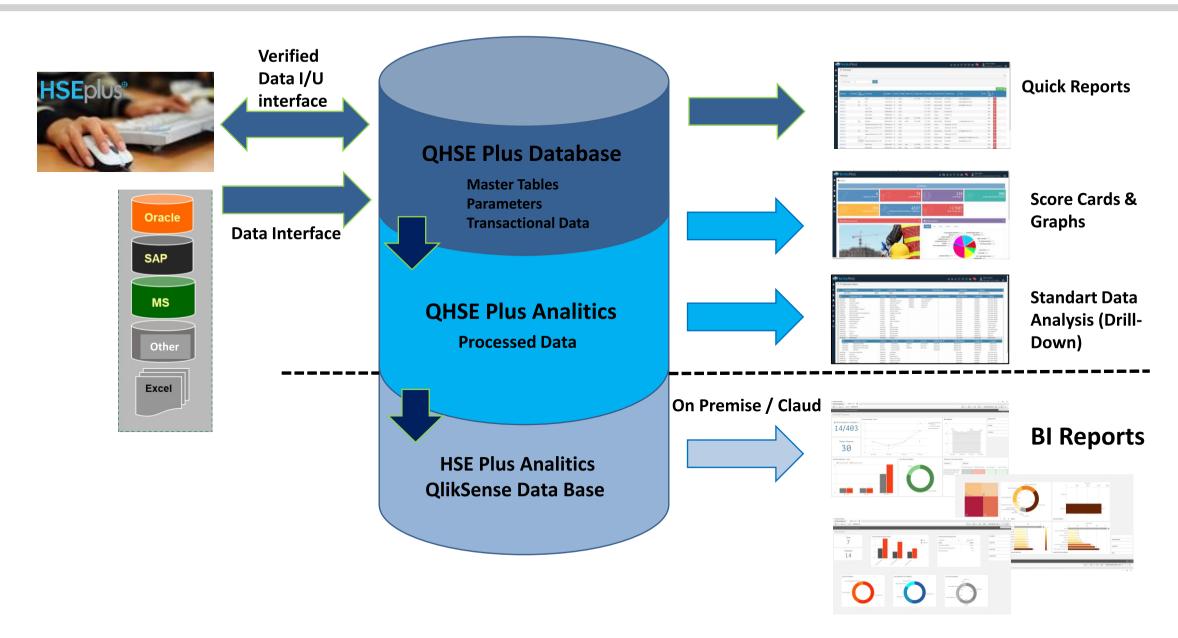


Auditor, Analyst & Key User – Detailed Information





Reporting Topology





The Dashboard

Scoreboard reports

Scoreboards are designed to provide you the important data. See them at first glance and drill down to detail as you wish.

Menu bar ◀

News And Bulletin

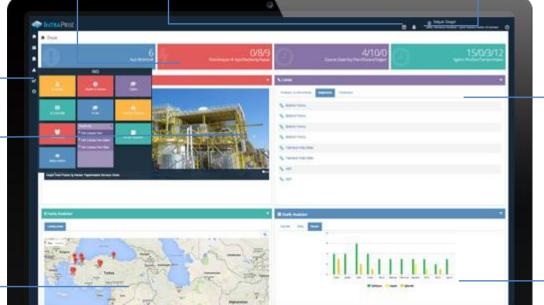
Let your be informed about your corporation. News, trainings, events. Compact content management.

Analyze On Map

See your locations, customers hot maps right on geographical graphs. Click and see details.

Track & Edit Your Work On Calendar

Easy to use functional calendar will make your life easy. Be organized, automatically sync with your Google / Outlook calendars.



Live Notifications

Be notified momentarily. The system will notify / remind you about everything you need to know.

▶ Links, Documents, Procedures

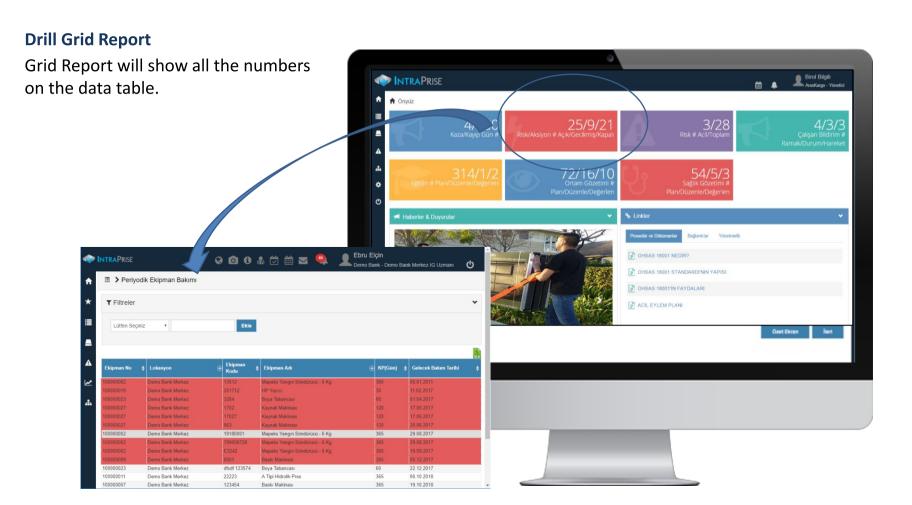
Reach exclusive content through quick board. Just like news and bulletin it is the compact content management.

Graphical Analysis

Wanna see the specific data graphs? You can manage the desired data graphs on this section.



Navigation for Details



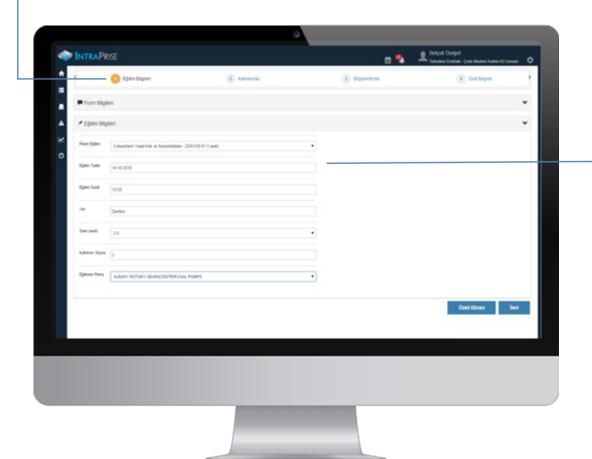
Score Card Report

See total number at first glance and just click on it to get detailed reports



Wizard Steps

Wizard steps will help you enter correct data easily. Navigate the steps for easy editing using wizard navigation bar.

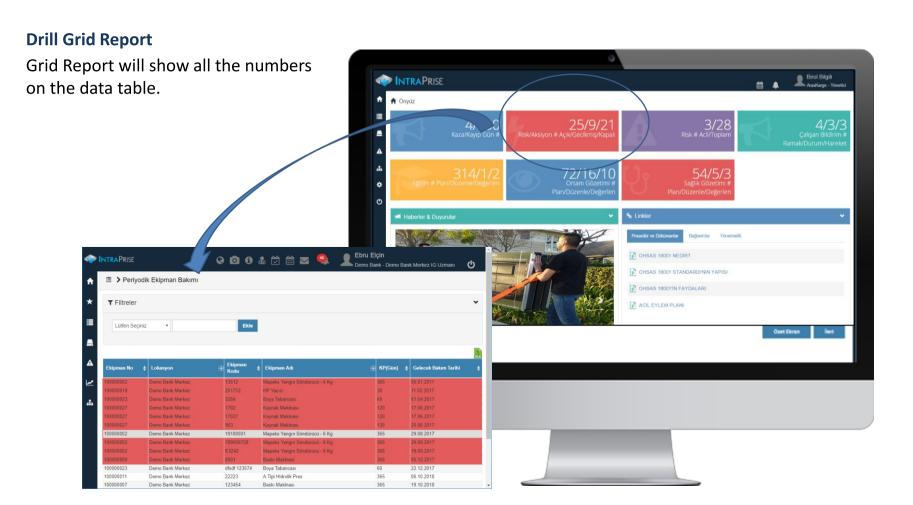


Valid Data Entry

IntraPrise form structure is developed while keeping time consumption as a main concern. Therefore, it is designed to enter right data quickly.



Navigation for Details

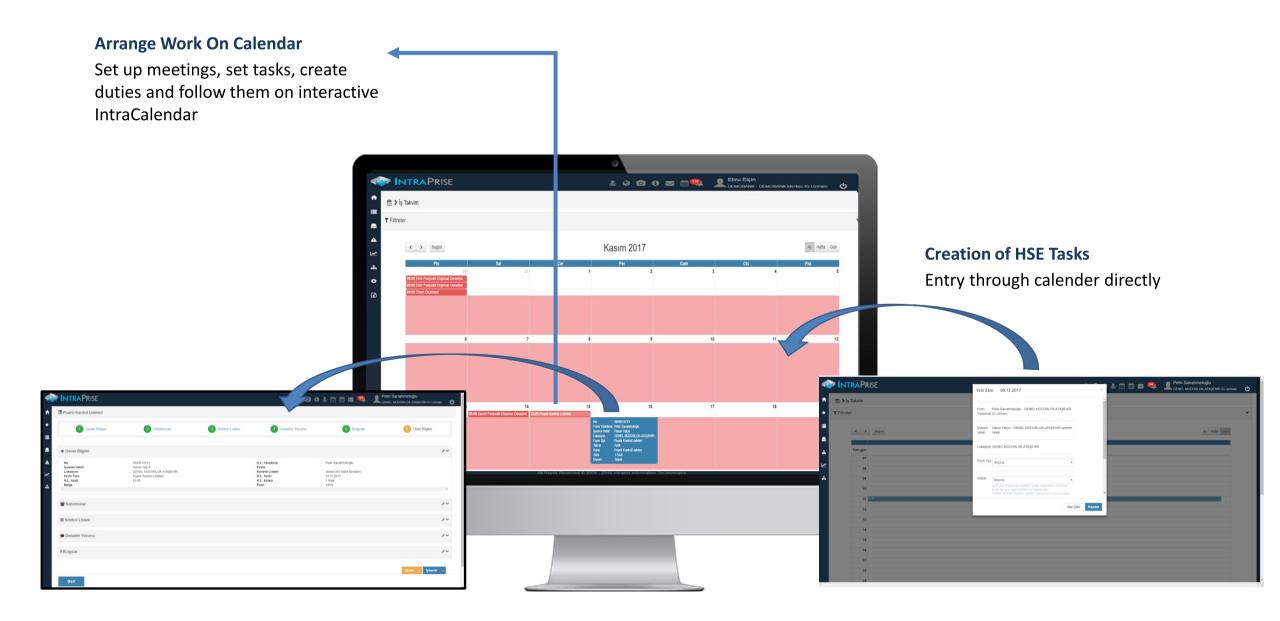


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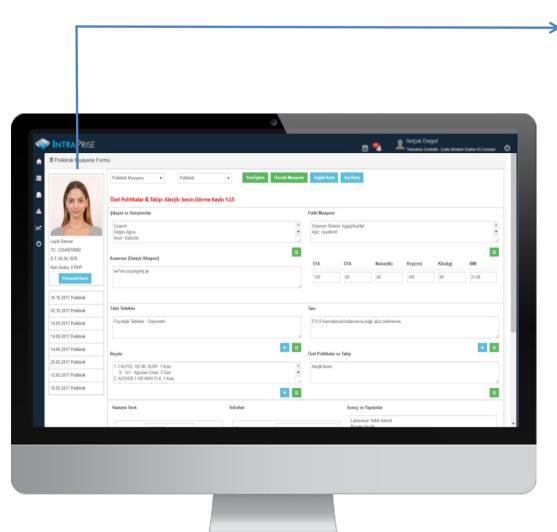


The Calender





Personel Health Care



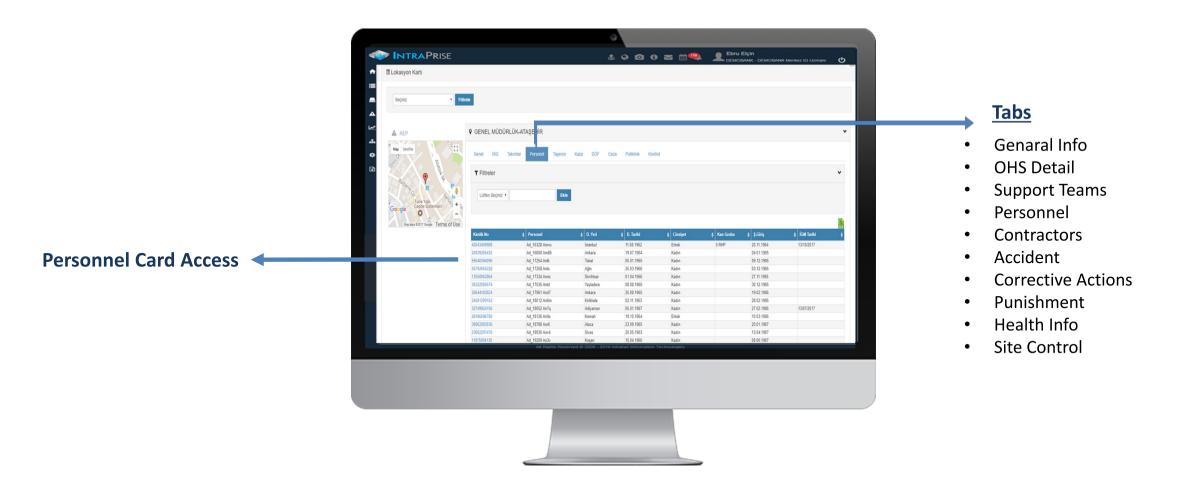
Personnel Health Tracking

Work Entry/Periodic Examination

- Polyclinic Examination
- Return to Work Examination
- Medical Intervention
- Booking and Tracking
- Occupational Disease
- Scanning
- Periyodical Site Visit
- Trainings
- e-Prescription

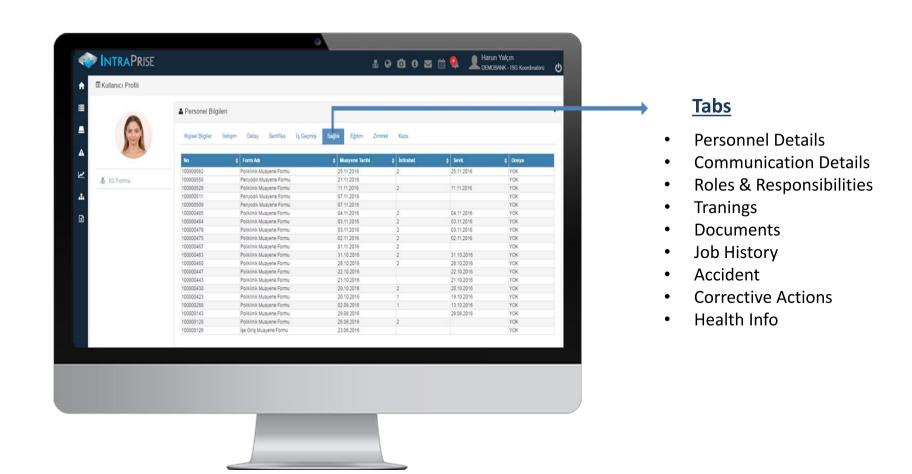


Location details are tracked on the Location Card





Personnel details are tracked on the Personnel Card





Complience to The Law on Protection of Personel Data



- *All personal data on HSEPlus are kept encrypted in database level.
- *Personal information is always kept secure from unauthorized users, by either masking or completely hiding depending on the situation.
- *System authorization can be also made via 2FA (SMS or EMAIL) All access, request and changes are logged in DB level.
- *HSEplus is entirely complying to the requirenments of ISO 27001 information security management system.







Performance Load Tests

HSEPlus has been tested several times by leading clients such as banks, airport management companies against unexpected loads.

Even though it passed the load tests successfully for a targeted number of concurrent instances, we are continuously improving the performance and scalability of our system.

Currently our cloud system hosts billions of lines of data and serves thousands of accounts on low cost server solutions.

The same infrastructure is always used on our on-premise systems.





Security & Penetration Tests

As the performance tests, our system is already tested against threats by leading companies.

This is a living product and the more we take it further with new features, the more we are conducting extensive tests for protection.

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THANK YOU!

HAKSOFT DIGITAL SOFTWARE TECHNOLOGIES LTD.

- M hello@haksoft.co.uk
- 70 White Lion St, London N1 9PP
- +90 850 885 36 83
- +44 20 7562 8950 +44 7391 17 15

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www.globsa.com

