



Zugkraft-kN

Digitalisierung nach Maß



**“We digitise your business
the way you need it!”**

www.zugkraft-kn.at



Zugkraft-kN

Digitalisierung nach Maß

We develop your “special train”

We develop your software together with you. In doing so, we rely on our powerful and proven core application, which provides all the functionalities offered by a state-of-the-art web application - **the Zugkraft locomotive.**

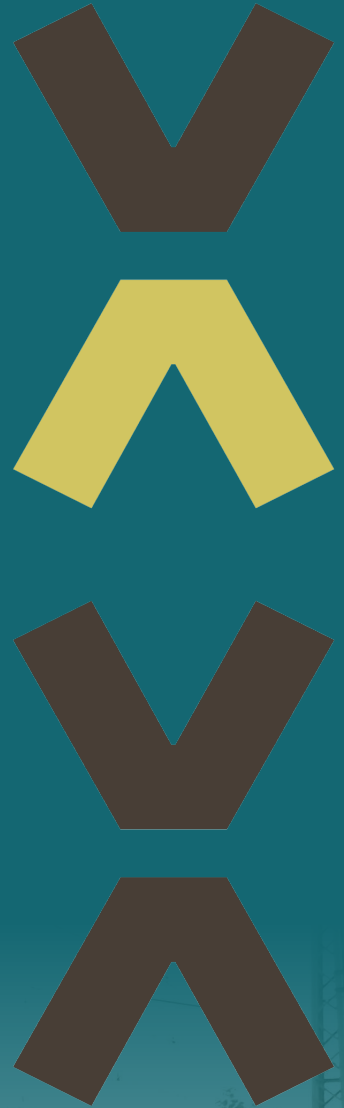
To this locomotive we now attach the software modules developed individually for you - **the wagons.**

In the end, the resulting application - **your own special train** - is exactly what you really need.

Without unnecessary ballast and without overloaded interfaces.

We're constantly developing our locomotive so that you can quickly connect your individual function packages to new technologies whenever you need to.

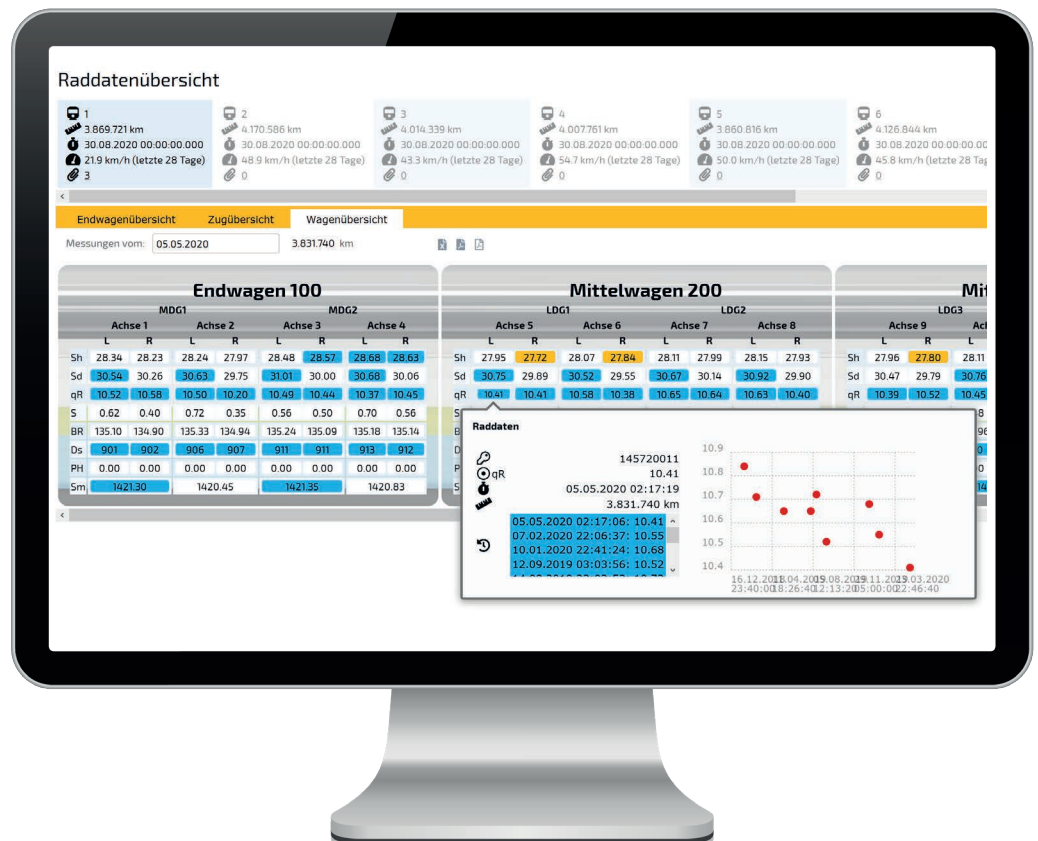
With this concept, we've been able to successfully implement projects in a variety of application areas over the years and **tailor them to the needs of the company.**



The Zugkraft locomotive

This is the central element of all our software packages and provides all basic functionalities.

- > Graphical, web-enabled user interface
- > Support of all common browsers
- > Interactive, bidirectional communication between client and server
- > Runs on Linux and Windows systems
- > Operation on-premises, SaaS via a partnership with a data centre in Austria or in a cloud environment
- > Encrypted data connection
- > Connection to different databases
- > User interface adaptable to customer designs
- > User and role administration
- > Flexible calendar
- > Universal diagrams
- > Chat functionality
- > Video support
- > Email dispatch and automatic email import
- > Document management
- > Management of any attachments to records
- > Creation of digital signatures
- > Logging of all database transactions
- > Multi-factor authentication on request
- > Various interfaces (PDF, XML, CSV, MS-Excel via web interface, FTP, e-mail), can be extended as required



Visualisation

Dashboards

Ansicht: Struktur | Sichtweise: Aufbau | Projekt: alle-Projekte | Gewerk: alle-Gewerke

Lichtbaugruppe Ottobahn (30.000.0017), V 1 + neue Baugruppe | Gruppe speichern | aktualisieren

#	Struktur	Pos.	Verz.	ZiNr.	Bezeichnung 1	Bezeichnung 2	Nr.	Menge	Verbrauch	Kommentar
1	1	1		222002_0	Lichtbaugruppe Ottob...		30.000.0017	1		
1.1	1.1	1		CAN96.0001	Lichtbaueinheit Ger...		30.000.0030	1		
1.2	1.2	1		3-137-7160	PCBA 40mm RGBW		30.000.0031	1		

Suche: [Suche] | neu aus DB laden

Typ	Name	Kommentar	Menge	Verbrauch	Prod-Verbrauch	Zeit	Prod-Zeit	EK-Preis	VK-Preis	Prod-Kosten
ITEM	PCBA 40mm RGB...		1	0	0	00:00:00		0,00	0,00	0,00
ITEM	Lichtbaueinheit G...		1	0	0	00:00:00		0,00	0,00	0,00

Administration

Prüfmittelüberwachung

Objekttyp	aktiv	Status	ID	kalibriert	kalibrationsdatum	nächste Kalibrierung	Kommentar	Name
Messmittel	☑	kalibriert	STOBB-983	☑	28.06.2022			FLUKE 375-C (STO...
Messmittel	☑	kalibriert	STOBB-984	☑	17.07.2022			FLUKE 62MAX+ (ST...
Messmittel	☑	kalibriert	STOBB-986	☑	17.08.2022			Tiefenmessgerät (ST...
Messmittel	☑	kalibriert	STOBB-987	☑	27.07.2022			FLUKE 1507 (STOBB...
Messmittel	☑	kalibriert	STOBB-990	☑	07.05.2022			Drehmomentschlüss...
Messmittel	☑	kalibriert	STOBB-991	☑	28.07.2022		liegt beim Herrmann	Drehmomentschlüss...
Messmittel	☑	nicht kalibriert	STOBB-992	☑	22.03.2022			ECDO 2 (STOBB-992)
Messmittel	☑	kalibriert	STOBB-995	☑	14.07.2022			Clamp Meter (STOBB...
Messmittel	☑	kalibriert	STOBB-996	☑	05.07.2022			2,5 - 25 (STOBB-994)
Messmittel	☑	kalibriert	STOBB-997	☑	06.08.2022			Beleuchtungsstärke...
Messmittel	☑	kalibriert	STOBB-998	☑	05.12.2022		Club-Torque C4	Drehmomentschlüss...
Messmittel	☑	kalibriert	STOBB-999	☑	17.02.2022		Werk Click-Torque C2	Drehmomentschlüss...
Messmittel	☑	kalibriert	STOBB-1000	☑	21.02.2023			mobile Teupunk-Me...
Messmittel	☑	kalibriert	STOBB-1001	☑	29.03.2023			Laser Distanz Meter...
Messmittel	☑	kalibriert	STOBB-1002	☑	29.04.2022			Lineal 150mm (STO...
Messmittel	☑	kalibriert	STOBB-1003	☑	29.04.2022			Lineal 150mm (STO...
Messmittel	☑	kalibriert	STOBB-1004	☑	28.04.2022			Lineal 150mm (STO...
Messmittel	☑	kalibriert	STOBB-1005	☑	19.05.2022			Waage (STOBB-1005)
Messmittel	☑	kalibriert	STOBB-1006	☑	17.02.2023		Profipaket	Drehmomentschlüss...
Messmittel	☑	kalibriert	STOBB-1007	☑	14.05.2022		Next sense	Caliper-Wheel C42 (S...
Messmittel	☑	kalibriert	STOBB-1008	☑	29.03.2023		neu gekauft 2022	Laser Distance Meter
Messmittel	☑	kalibriert	STOBB-1009	☑	25.08.2022			Guides Diameter-S...
Prüfmittel	☑	geprüft	STOBB-1201	☑	25.05.2022			Leiter 6 Sprossen (S...
Prüfmittel	☑	geprüft	STOBB-1202	☑	25.05.2022			Leiter 12 Sprossen (...)
Prüfmittel	☑	geprüft	STOBB-1203	☑	25.05.2022			Leiter 12 Sprossen (...)
Prüfmittel	☑	geprüft	STOBB-1204	☑	25.05.2022			Leiter 11 + 11 Spro...
Prüfmittel	☑	geprüft	STOBB-1205	☑	25.05.2022			Leiter 8 Sprossen (S...

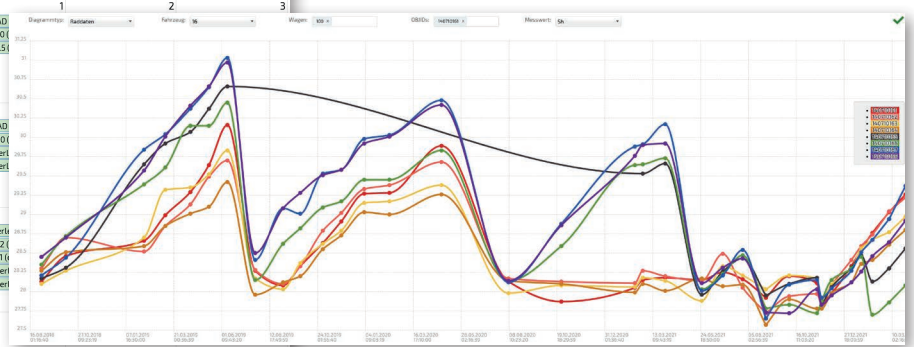
Surfaces and visualisations entirely according to your needs

Kalender

Wartungsstand: -alle ohne Vorschau - | Fahrzeug: -alle -

April 2022 | Monat | Woche | Tag | Liste | heute | << | >>

Mo	Di	Mi	Do	Fr	Sa	So
FZ 11, P (erledigt)	FZ 27, P15 (erledigt)	FZ 16, M-RAD (erledigt)	FZ 22, P90 (erledigt)	FZ 13, M-RAD		
FZ 14, P (erledigt)	FZ 32, P15 (erledigt)	FZ 16, P60 (erledigt)	FZ 9, P360.5 (erledigt)	FZ 13, P180.0		
FZ 23, M-RAD (erledigt)		FZ 28, M-RAD (erledigt)		FZ 18, P360.5		
FZ 23, P60 (erledigt)						
FZ 31, P15 (erledigt)						



angenommen - in Arbeit
 in Aufarbeitung
 nicht erledigt - rückgemeldet
 erledigt - rückgemeldet

OK

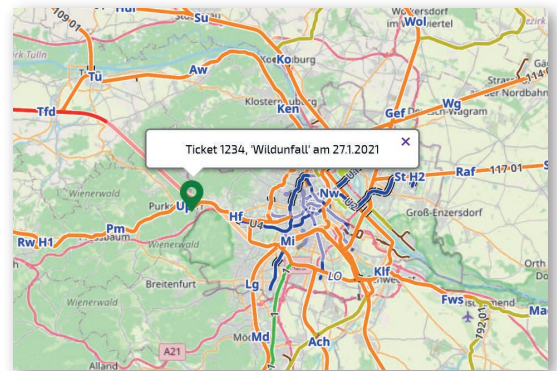
Also available as a web application on mobile devices with Android and iOS



Maintenance of rail vehicles

One system for all ECM4 requirements

- > Ticket system
- > GIS system
- > Planning and forecasting of maintenance
- > Display of track occupancy
- > Ordering system
- > Warehouse management incl. creation of QR codes and mobile stocktaking
- > Documentation of life cycles of individual components
- > Administration of hardware and software
- > Vehicle file
- > Component management
- > Vehicle schedules
- > Meter readings
- > Wheel measurement data (automat. import from CALIPRI)
- > Daily reports
- > Inspection equipment monitoring
- > Repair management
- > QM (sample management, double inspections, action plan, etc.)
- > Staff management (teams, shift plans, roles, authorisations, qualifications)
- > Digital handover book
- > Operating materials management
- > Working time records
- > Reporting
- > Mobile version for smartphones and tablets



Ticket #	Aktion	Start	Bert.	FZ	W	KST	Aktion	Aktion Kom.	Ticket-Info	Diagnose	Verantwortl.
807 + 1396	Wartung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1397	Außenprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1406	Grubprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1427	Dachprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1430	Allgemeinprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1431	Einseilprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1438	WC-Prüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1443	Türprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	
807 + 1446	Führerstandsprüfung	14.02.2021 08:42	1	-	-	-	P30 4010	P1 4010	P1 (188)	P1 (188)	

1
3 869 721 km
30.08.2020 00:00:00
219 km/h (letzte 28 Tage)
3
P1+P2.1 01.07.2020 - 03.07.2020 (3 875 555 km - 3 876 605 km)
P1 19.08.2020 - 21.08.2020 (41 600 km - 22 880 km)
P0 01.09.2020 - 03.09.2020 (62 400 km - 64 480 km)
P1+P2.1 01.09.2020 - 03.09.2020 (3 873 521 km - 3 874 571 km)
P0 20.09.2020 - 22.09.2020 (3 094 721 km - 3 096 580 km)
P3 29.09.2020 - 01.10.2020 (4 078 830 km - 4 103 830 km)
P0 am 05.08.2020 bei keine Daten km
P1 am 04.05.2020 bei keine Daten km
P2 am 21.07.2020 bei keine Daten km
P1+P2.1 keine Daten
letzte P3 am 01.04.2020 bei 3 928 830 km

Dashboards

Zustellplanstellen	Leistung	Arbeitsleistung	Tickets & Aktionen	Arbeitsleistung	Mitarbeiter	Administration	Umsatzübersicht	Bestellungen																																																																																																																						
<table border="1"> <thead> <tr> <th>Monat</th> <th>Wochentag</th> <th>Tag</th> <th>Umsatz</th> <th>Wochentag</th> <th>Tag</th> <th>Umsatz</th> <th>Wochentag</th> <th>Tag</th> <th>Umsatz</th> </tr> </thead> <tbody> <tr> <td>Aug 2020</td> <td>Mo</td> <td>1</td> <td>1000</td> <td>Di</td> <td>2</td> <td>1200</td> <td>Mi</td> <td>3</td> <td>1500</td> </tr> <tr> <td>Aug 2020</td> <td>Do</td> <td>4</td> <td>1800</td> <td>Fr</td> <td>5</td> <td>2200</td> <td>Sa</td> <td>6</td> <td>2800</td> </tr> <tr> <td>Aug 2020</td> <td>Son</td> <td>7</td> <td>3500</td> <td>Mo</td> <td>8</td> <td>4200</td> <td>Di</td> <td>9</td> <td>5000</td> </tr> <tr> <td>Aug 2020</td> <td>Mi</td> <td>10</td> <td>5800</td> <td>Do</td> <td>11</td> <td>7200</td> <td>Fr</td> <td>12</td> <td>8800</td> </tr> <tr> <td>Aug 2020</td> <td>Sa</td> <td>13</td> <td>10500</td> <td>Son</td> <td>14</td> <td>12500</td> <td>Mo</td> <td>15</td> <td>15000</td> </tr> <tr> <td>Aug 2020</td> <td>Di</td> <td>16</td> <td>18000</td> <td>Mi</td> <td>17</td> <td>22000</td> <td>Do</td> <td>18</td> <td>28000</td> </tr> <tr> <td>Aug 2020</td> <td>Fr</td> <td>19</td> <td>35000</td> <td>Sa</td> <td>20</td> <td>42000</td> <td>Son</td> <td>21</td> <td>50000</td> </tr> <tr> <td>Aug 2020</td> <td>Mo</td> <td>22</td> <td>58000</td> <td>Di</td> <td>23</td> <td>72000</td> <td>Mi</td> <td>24</td> <td>88000</td> </tr> <tr> <td>Aug 2020</td> <td>Do</td> <td>25</td> <td>105000</td> <td>Fr</td> <td>26</td> <td>125000</td> <td>Sa</td> <td>27</td> <td>150000</td> </tr> <tr> <td>Aug 2020</td> <td>Son</td> <td>28</td> <td>180000</td> <td>Mo</td> <td>29</td> <td>220000</td> <td>Di</td> <td>30</td> <td>280000</td> </tr> <tr> <td>Aug 2020</td> <td>Mo</td> <td>31</td> <td>350000</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Monat	Wochentag	Tag	Umsatz	Wochentag	Tag	Umsatz	Wochentag	Tag	Umsatz	Aug 2020	Mo	1	1000	Di	2	1200	Mi	3	1500	Aug 2020	Do	4	1800	Fr	5	2200	Sa	6	2800	Aug 2020	Son	7	3500	Mo	8	4200	Di	9	5000	Aug 2020	Mi	10	5800	Do	11	7200	Fr	12	8800	Aug 2020	Sa	13	10500	Son	14	12500	Mo	15	15000	Aug 2020	Di	16	18000	Mi	17	22000	Do	18	28000	Aug 2020	Fr	19	35000	Sa	20	42000	Son	21	50000	Aug 2020	Mo	22	58000	Di	23	72000	Mi	24	88000	Aug 2020	Do	25	105000	Fr	26	125000	Sa	27	150000	Aug 2020	Son	28	180000	Mo	29	220000	Di	30	280000	Aug 2020	Mo	31	350000					
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Production

One software package for the entire production process

- > Customer management
- > Supplier management
- > Article management
- > Cost planning
- > Production planning
- > Resource planning
- > Transport management
- > QM system
- > Accounting
- > Mobile version for smartphones and tablets



Engineering

Software for cableway calculations

- > Management of different calculations and calculation runs
- > Configurable data input
- > Data import from MS Office documents
- > Configurable data output (incl. filling of templates)
- > Flexible creation of diagrams
- > Connection to external systems



Training system

A customised training system

- > Creation and planning of online training courses
- > Integration of Office documents and presentations
- > Creation and implementation of quizzes
- > Evaluations
- > Management of training materials
- > Qualification matrix

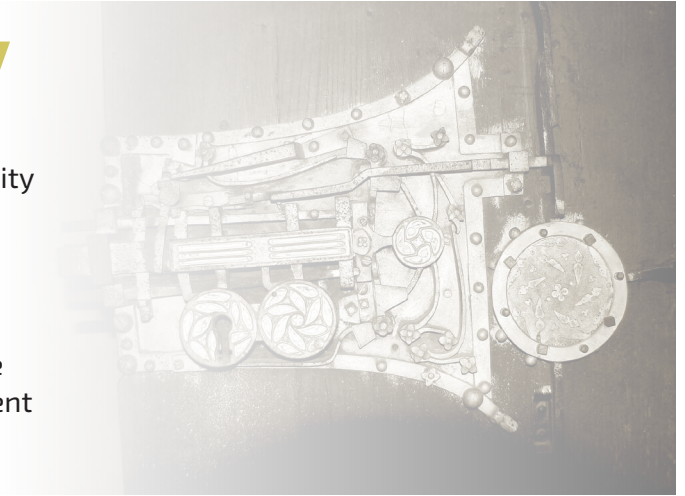




Security & quality

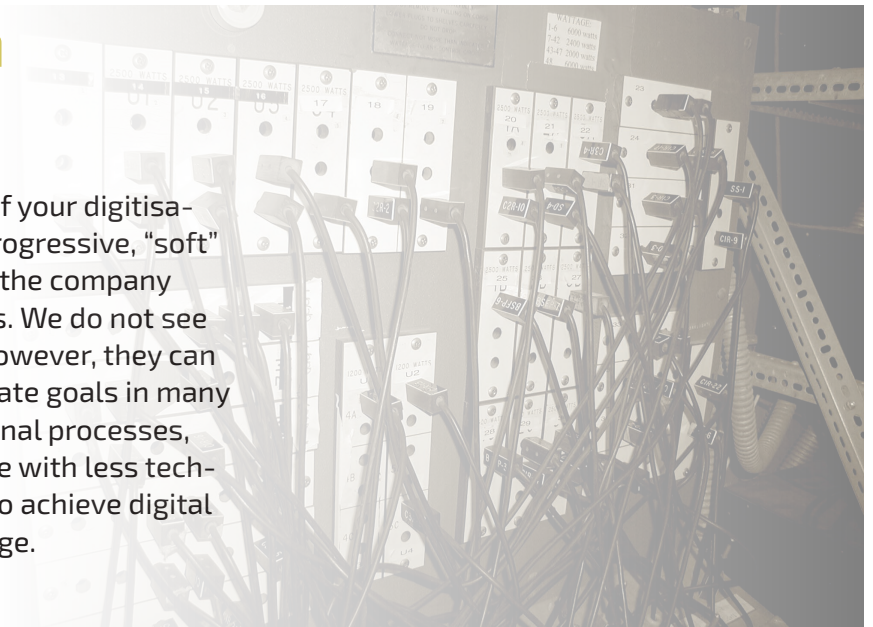
Since end of May 2022 we are proud owners of the **ISO27001 certificate** (Information technology – Security techniques – Information security management systems).

The access data to the current **source code**, including documentation of the software developed for you by us, will be **notarially certified**. You will therefore have access to the latest version of your software in the event of insolvency.



Digitisation support

We support you in the implementation of your digitisation projects. In doing so, we pursue a progressive, “soft” approach. This means that processes in the company are digitised gradually during operations. We do not see digital technologies as a miracle cure. However, they can contribute to the achievement of corporate goals in many areas. By cautiously converting operational processes, we avoid isolating parts of the workforce with less technical affinity from progress. Our goal is to achieve digital transformation without collateral damage.



Integration of infrastructure

If required, we can integrate the existing infrastructure, e.g. existing software systems, production machines, measuring devices and sensors, vehicles, etc., into the software created for you. We do this individually and according to your requirements.



Research

Together with the VRVis research institute, we develop both software for use in the field of augmented reality and hardware for quality assurance in the railway maintenance segment (LIDAR roof scanner).



Our Zugkraft promise to you

Together we develop software exactly in line with your requirements. This is carried out **during ongoing operations.**

Our developers become familiar with the client's operations, thus gaining a deep **understanding** of the company's problems and goals.

Together we find ways to technically implement **your wishes** in the software and to achieve **your goals.**

The involvement of all users ensures broad acceptance of the new software.

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