# TRENDS AND OPPORTUNITIES IN THE GLOBAL SOFTWARE AND IT SERVICES INDUSTRY





#### About the teknowlogy Group





#### **Our Group model**









1	Main Business and IT Challenges
2	Major IT trends – Digital, Cloud, Security
3	Rates for IT Services
4	PAC Recommendations
5	The Russian Software and IT Services market



### Main Business and IT Challenges (1)

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How would you rate the following economic challenges for your company?

Major challenge Minor challenge







### Main Business and IT Challenges (2)

Active contribution of IT to optimizing

business processes

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#### How would you rate the following IT challenges for your company?

Major challenge Minor challenge 42% 39% 35% 45% Shortage of skilled IT Active contribution of IT to professionals create new business models PAC - a teknowlogy Group Company, 2019 41% 40% 31% 53% Pressure on IT operations to reduce Optimization of IT sourcing costs and improve efficiency 39% 44% 31% 51% The changing needs of Optimization of end-user customers in a digital world experience 37% 44% 30% 49% 000000 Smooth and secure IT operations IT-OT convergence / collaboration (availability, security, compliance) between business lines and IT  $\odot$ 35% 46%



### **IT Budgets Evolution**



#### IT topics - the most important to invest in

S=CR

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Does your company intend to spend more, about the same, less or nothing on the following IT topics over the next two years?



#### **Major trends in IT services**

Software as a service



Do you expect the following services to gain, maintain or lose in importance for your company over the next two years?





# **Companies' approach to digital transformation**





## **Goals of Digital Transformation projects**

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In general, which of the following aspects is a major goal, a minor goal or not a goal at all in your current digital transformation projects?



a teknowlogy Group Company, 2019 PAC - $\odot$ 



#### **Relevance of digital technologies**



In which of the following solutions and technologies does your company plan investments within the next 2 years?





### **Usage areas for Cloud Computing**

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# In which areas is the usage of cloud computing already realized, planned within the next two years, or at least conceivable?





## Cloud deployment models in IT departments teknowlogy

#### For which of the following topics is the cloud already in use, planned for the next two years, or at least conceivable?

Already in use Planned for the next two years Neither in use nor planned, but conceivable





18% Internet of Things (IoT)/ machine to machine (M2M)

20%

Artificial intelligence (AI)/ Machine learning



## Business usage areas for cloud computing teknowlogy

# In which of the following business areas is the cloud already in use, planned for the next two years, or at least conceivable?





#### **Cyber Security Challenges**





#### Drivers for implementing security measures

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# Which of the following aspects are a major reason, a minor reason or no reason at all to initiate security measures in your organization?





#### Status quo of cyber security measures

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Which cyber security measures and activities have already been implemented in your company and if so, would you recommend them to other companies based on your experience?

Already implemented	Recommended to other companies		
Staff awareness training on cyber security	Staff awareness training on cyber security		
80%	63%		
Measures for inter-departmental collaboration	Measures for inter-departmental collaboration		
73%	41%		
Company-wide risk management program	Company-wide risk management program	019	
70%	36%	ny, 2	
Top management involvement in security matters	Top management involvement in security matters	mpai	
69%	61%	p Co	
Initiatives to improve technical expertise on cyber security	Initiatives to improve technical expertise on cyber security	y Grou	
68%	37%	wlog	
Cyber security compliance program	Cyber security compliance program	tekno	
67%	53%	, D	
Initiatives to improve business expertise	Initiatives to improve business expertise	PAC 0	
65%	of cyber security personnel	0	
Incident response program for IT security	Incident response program for IT security		
64%	58%		
Cross-company cooperation	Cross-company cooperation		
63%	38%		
Dedicated cyber security team	Dedicated cyber security team		
61%	60%		



#### Investments in different cyber security areas teknowlogy

In which of the following cyber security areas are you planning to invest heavily, make some investments or not invest at all in the next 12 months?



# IT Decision Makers – changes and evolution of the responsibilities





### **Rates for IT Services – Europe**



Average by Major Country





#### PAC Recommendations (1) IT Suppliers

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#### Cloud

Service providers should strive for coherent concepts for hybrid and multicloud environments that enable customers to create a vendor and business agnostic IT environment for digital business models.

#### **Digital**

Providers should align their own capabilities and capacities to digital topics and also build up complementary ecosystems in order to expand the resource pool with trained specialists.

#### Efficiency

Suppliers should align their offerings with customers' efficiency needs such as automation, as well as cost saving services, e.g. outsourcing. In times of agile software development and DevOps, providers need to find answers to how to combine in agile projects an onsite presence on the one hand and nearshore/offshore on the other.

#### Security

Companies want to open their IT systems in the course of the platform economy and digitalization but are often unable to guarantee security due to a lack of skills. Security providers can help with innovative services here.





#### PAC Recommendations (2) IT Users

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#### Analyze

Companies should carefully analyze new technology in order to assess its potential and benefits. Al, for example, is an interesting and much-discussed topic that can have an effect in almost all segments but is not yet mature enough in many areas.

#### **Partners**

Co-development and co-business models with partners and providers should be extended to the development of all new products/services. Digitalization can only be achieved with a range of different skills, which cannot be found within a single company.

#### **IT departments**

IT users should make sure to not bypass the IT department if they want to boost digital transformation. Bypassing IT may give the impression of being quicker, but problems (technical, financial) will undoubtedly arise when the solution is rolled out to the whole company.

#### Security

IT users need security expertise, processes, and strategies, not to mention awareness of potential threats. Security is a long-term issue, so companies should not expect quick solutions.





#### The Russian Software and IT Services market teknowlogy Maturity Curve

Emerging new topic still small volume	<b>Growing</b> young topic already sizeable volume	Mature mature topic substantial volume	<b>Declining</b> established topic substantial volume
Robotic Process Automation (RPA)			
Real time Analytics	SaaS		
Internet of Things (IoT)	Omni-channel Solutions		
Big Data	Infrastructure consolidation		
Artificial Intelligence (AI)	Enterprise Applications	Testing	Office automation (on- premise)
	eGovernment	SAP C&SI	Hardware installation and support
	Cyber Security	Operating Systems	
	CRM	Legacy Modernization	
	Core banking modernization	Finance & Accounting SW (on premise)	
	Cloud computing	Custom Software Development	



# THANK YOU for your attention



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