E-PANOPTICON OF FACE-TO-DISPLAY WORKERS: FROM THE OFFICE TO THE HOME

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Abstract: Electronic Monitoring (EM) is becoming prevalent, enabling varied and pervasive monitoring of workplaces. The research design was a set of e-mail surveys. Quantitative data were analyzed using cross-tabulation of data, descriptive and chi-square tests statistics. The study provides an overview of e-worker monitoring in five countries. Twenty percent of respondents believe that their organization uses employee monitoring software to track their activities. Almost half of the e-workers believe that their activities are not being tracked by software. Nearby 1/10 of the face-to-display workers surveyed would trust their employer more using EM. Four-fifths of e-workers state that EM affects their productivity. Presented data emphasizes that companies using face-to-display workers monitoring software can negatively affect morale and productivity instead of producing better work. Further, employees are often unfamiliar with whether or not there is monitoring software tracking their activities. The study recommends that organizations should inform its employees before implementation of EM system to facilitate their positive attitudes

Keywords: e-working, e-panopticon of face-to-display workers, software, productivity, V4 and Austria.

1 Introduction

With the current global Covid-19 pandemic, organizations (big, small, global or local) found themselves in the same work conditions. They have been forced into face-to-display work (eworking) situations. Eurofound (2020) indicated that up to 40% of working employees in the EU began to e-work full-time as a result of the pandemic. A simple definition of e-working is working at a distance; however, in fact, e-working is far more complex. It is called different names, including teleworking, telecommuting, mobile working, nomadic working and others. It refers to the replacement of telecommunications for any form of work-related travel, thereby removing distance limitations and problems associated with classical commuting. (Nilles, 1998; Hunton and Norman, 2010). Information and communication technologies (ICTs) have released workforces from the constraints of a fixed work place, enabling mundane tasks to be distributed across remote locations (Harrison et al., 2000). Societal changes (the constantly evolving demography, environmental issues and ICT) have an impact on the way we work, and when, how and where we work (Beno, 2019).

Knowledge is seen as central to the success of individuals and organizations and an asset that needs to be managed. The implementation of e-working arrangements during the pandemic has had an enormous impact on the whole organization and employees. This remote-work experiment is an alert to organizations being prepared in the future, when employees will expect to be fully supported in e-working environments as they are in the office. Our ability to cooperate in this type of work habitat makes knowledge management (KM) a necessity. The linkage to how KM powers e-working is visible: it enables findability, connectivity, collaboration and corporate culture. Generally, technology leaders are dependent on KM, but most organizations are behind where they need to be support remote work environments.

Employee monitoring is becoming more common in the workplace (Kirsten and Freeman, 2003; Pitesa, 2012; Kiziloglu, 2018). E-monitoring tools offer managers the ability to continuously evaluate and measure their employee's appraisal (Al-Rjoub et al. 2008). As (Moussa, 2015) underlines, there is no need to police a workforce because no one can work 8 hours without breaks, and a culture of disloyalty and distrust within the organization may emerge.

The growing demand for e-working, the widespread policy drivers and the increase of their usage during Covid-19 have emphasized the need for real-life evidence. Our research was conducted by an online email survey. It addressed the following research questions:

RQ1: Is better to leave room to e-employees instead of spying them?

RQ2: Can e-employee monitoring software (EMS) affect productivity?

RQ3: Is e-employee monitoring software reliable?

The next section provides an account of the concept of eworking and e-monitoring in the workplace. The next part briefly outlines the methodology used in this research. Following paragraph gives an overview of our results. Then the sections presenting our discussion and research limitations follow. The last section comprises our conclusions.

2 Literature review

2.1 E-working

Telecommuting was first introduced by Jack M. Nilles in 1970s (Nilles et al. 1974). The early main driver was to let employees save costs of commuting to work (Nilles et al., 1974; Nilles, 1997), and later, working at home was linked with gasoline savings (Schiff, 1979).

There is still no uniform definition of teleworking/ telecommuting but several definitions of this phenomenon (Beňo, 2021). The classic definition of teleworking is outdated (Beno, 2018). There are broader approaches to this kind of work (Allen et al. 2015; Nicklin et al. 2016). Some do not require certain regularity and location, while others are fairly traditional about them. The concept of ICT (information and communications technology) enabled work from afar i.e. telework, also known as remote work, virtual work or telecommuting (Gajendran and Harrison, 2007). "Since the idea of telecommuting has been around for decades now, it makes sense that new words and phrases would come to replace what is, in theory, a not-so-new workplace concept" (WorkFlexibility, 2018).

We define e-working as performing job-related work outside the office premises electronically and transferring data to the office/customers/partners or to other locations. Telework covers more than just working at home and communicating with the office via telecommunication tools (Nilles, 1994). In this sense, it includes home-based work, work centres, neighborhood or satellite offices (Nilles, 1994), mobile and virtual work. Kurland and Bailey (1999) defined these four different teleworking types as follows: (1) The Home Office, (2) The Satellite Office, (3) The Neighborhood Work Center and (4) Mobile Working. Thus, face-to-display work can be located at any distance from headquarters, a work center, on the way or in the virtual world. These factors (individual, job, organizational and family/home) impact telework (Baruch and Nicholson, 1997).

2.2 E-panopticon (e-monitoring) of Face-to-Display workers

Every manager is concerned about efficient and effective exploitation of working hours and their results. Tracking, control and surveillance of workers at the workplace is therefore not a new concept (Burawoy, 1982; Foucault, 1979). Ajunwa et al. (2017) highlight that there is a rich and varied history of bosses watching over and monitoring their workers, passing through key events and periods of time including warfare, slavery, colonialism and globalization, as well as many other more recent methods used to control and exploit workers.

Many companies spy on their workforce through the e-mail and Internet, sometimes without their awareness and approval. Instant messaging, text messaging, and social media monitoring are also increasing (Laudon and Laudon, 2018). Many have compared workplaces under monitoring to the Panopticon (Liu, 2017). Ball (2010) identifies three common reasons of emonitoring (EM): (a) to maintain productivity and monitor resources used by employees, (b) to protect trade secrets, and (c) to provide evidence in case of a legal dispute. Ajunwa et al. (2017) add the implementation of these types of EM systems for improving efficiency and innovation as the fourth factor. Al-Rjoub et al. (2008) add that EM tools provide managers with the ability to continuously evaluate and measure their employee's performance. It implies that employers are capable of micromanaging employees by tracking almost everything. For this reason, we interpret electronic monitoring as any system allowing to track and to supervise every move of e-workers at anytime and anywhere.

The work environment is an elemental site for the development of generic skills such as communication, problem-solving, teamwork, information technology and customer service skills. These skills are crucial in today's workplace because they relate to employability. Beyond, the culture of the workplace needs to support individuals to effectively establish or utilize these skills (Virgona et al., 2003). In the authors' opinion, the ability to develop innovative capacity depends not only on the hard and soft skills, but on the trust, the internal environment of the enterprise and, hence, the up-to-date culture of the workplace. Intrinsic motivation is a triggering element for employees' creativity. During their research, Bernstrøm et al. (2017) concluded that if they are monitored, they are less intrinsically motivated because they feel less trusted. The componential theory of creativity, for example, suggests that an interesting or attractive task or problem increases the employee's tendency to use a creative approach. In other words, the employee tends to search for non-traditional and/or alternative ways of solving work related problems (Amabile et al., 1996, Shin and Zhou, 2017).

In the past, e-workers were selected from among a group of responsible individuals with good behavior. By this act, they were given more freedom from micromanagement. It turns out that e-workers are less prone to misconduct than cubicle workers. Porterfield (2003) recognizes some cases when micromanaging works e.g. line manufacturing occupations where body shapes essentially function as mindless machines. In other words, micromanaging is a great way to reduce job satisfaction, limit creativity, stifle communication, and reduce productivity (Fracaro, 2007).

Workplace surveillance technology is infiltrating the employee's daily environment to monitor their web-browsing patterns, keystrokes, social media posts and even private messaging apps (Solon, 2017). Gartner survey's results found that more than 50% of corporations are using some type of non-traditional monitoring techniques. Further, 30% of employees were agreeable with tracking their mail by employer (Kropp, 2019).

Covid-19 has accelerated workplace change. They moved from clearly-defined physical locations to virtual ones. Modern technology enables managers to manage and to track employees from distant locations. Such daily reliance and dependency on technology has created new issues concerning employee' privacy and has added new stress to the employer-employee relationship (Nord et al., 2006). To evoke positive reactions from employees, Kehinde and Okafor (2019) recommend the organization to inform its employee before the EM implementation. To improve employee performance, many organizations are more and more employing electronic performance monitoring (EPM), the so-called an invisible eye (Bhave, 2014). EPM can be utilized to micromanage workforce and to attack privacy, to reduce their job satisfaction, to boost stress and lead into low-trust and negative work relationships (Schumacher, 2011).

One of the advantages of EM is that it is a useful tool for performance and productivity appraisal and evaluation (Al-Rjoub et al., 2008; Ciocchetti, 2011; TechRepublic, 2005). On the contrary, numerous studies have documented the negative effects of EM on employee morale and productivity. The monitored employees complain that their surveillance results in paced work, a lack of involvement, a reduced social support from peers and supervisors, and a fear of job loss (Ariss, 2002). Sarpong and Rees (2014) also record that monitoring can be unproductive.

Martin and Freeman (2003) argued that EM creates a "paternalistic" relationship among employers and employees. Lim (2002) adds that employees might feel they are treated like children. But Princi and Krämer (2019) stress that employees who have a trusting relationship with their organization will more likely accept the deployment of an IoT system (Internet of Things implemented as Smart Electronic Monitoring), even if the system is capable of collecting their personal data.

3 Methods

Our research was conducted in two phases. First, a literature review was undertaken that examined scholarly findings on eworking and e-monitoring in the workplace. Second, an e-mail survey was undertaken. The structured questionnaire was based on similar published surveys, in particular, on the Clutch 2020 Employee Productivity Survey (Roddy, 2020) focused on pros and cons of employee monitoring. Our insights were drawn from respondents across the Central European Countries: Austria, the Czech Republic, Hungary, Poland and Slovakia. Our main interest addressed their position towards e-monitoring, inter alia the potential changes in their attitude regarding their electronic monitoring after their move to home offices. As a result, their factual geographical locations were not part of our research interest.

All participants engaged in the e-mail survey were fully informed regarding confidentiality, privacy, sensitivity and data protection. Their participation was voluntary, they confirmed it using a consent form.

3.1 Sample and Sampling procedure

Before the fieldwork was conducted, the survey instrument was pilot-tested between 9 and 30 November 2020. 1000 questionnaires were sent out, with a response rate of 58.5%. Among them, 45.3% of the respondents were male, and the median age was 20-39 years. Out of the respondents, 51.5% were single. The key role of this introductory stage was to form a sample which would only include the employees having jobs requiring an extensive use of computers to accomplish their tasks. Part-time employees and cubicle-only employees were eliminated. Moreover, respondents younger than 20 were omitted. In total, the sample consisted of 585 full time e-workers aged 20 years and above. Consequently, the sample contained a heterogeneous group of professionals working in several areas, including service industry. They all agreed to participate in the next survey under a warranty that their responses to the questionnaire remain anonymous.

3.2 Measures

3.2.1 Monitoring Software

To map the overall situation, the questionnaire started with the following question: "*Does your firm utilize Employee Monitoring Software?*" The three-point scale was used: yes - no - unsure.

3.2.2 Workplace trust versus Employee Monitoring

Big Brother is becoming increasingly common. Rosengren and Ottosson (2016, p. 182-183) make the point that must be taken seriously, that while new digital technologies do open up certain kinds of monitoring and surveillance, the extent and consequences will necessarily depend on the social fabric interwoven into the organization in terms of culture and trust. We asked respondents: *"Would you have more trust in your company, if monitoring software was used to track your work?"* The two-point scale (yes - no) was utilized.

3.2.3 Productivity

Al-Rjoub et al. (2008) emphasize that the employee will be more productive when he/she is electronically monitored. Further their results suggest that EM has been accepted by many employees as a technology tools that help in improving the employee's behaviour. The three-point scale (more productive - no effect less productive) was applied to: "How would Employee Monitoring Software affect your productivity?"

3.2.4 Privacy versus Productivity

The workers are using equipment supplied by their employer for both private and professional purposes. For the companies, it gives the opportunity of implementing software giving them a broader range of control and surveillance over their employees' online activities (Rosengren and Ottosson, 2016). It is increasingly common for employers to track their teams when they are on the clock. When the employees know that the Big brother is watching them, it could mean they waste less time and are more productive. But is that actually the case? The following question has been asked: "*Is Employee Monitoring Software reliable*?" The two-point scale was used (yes - no).

3.2.5 Demographics

Gender, age, marital status, and employment were used as control variables in the analyses.

3.3 Data Analysis

In the first stage, we used a cross-tabulation of data to examine relationships within the data. In the second stage of our analysis, we used chi-square tests statistics to find out the relationship between the pairs of questions:

- "Does your company use Employee Monitoring Software?" and "How would Employee Monitoring Software Affect your productivity?"
- "Would you have more trust in your company, if monitoring software was used to track your work?" and "Does your firm utilize Employee Monitoring Software?"
- "Would you have more trust in your company, if monitoring software was used to track your work?" and "Is Employee Monitoring Software reliable?"
- "How would Employee Monitoring Software affect your productivity?" and "Is Employee Monitoring Software reliable?"

Additionally, age group and gender has been tested of the following questions:

- 1. "Would you have more trust in your company if monitoring software was used to track your work?"
- "How would Employee monitoring Software Affect your Productivity?"
- 3. "Is Employee Monitoring Software reliable?"

4 Results

4.1 Face-to-Display workers monitoring software findings

The oldest and most common employee monitoring technology is the clock, e.g. 8-hour day, also called the 9-to-5 workday (Duggan, 2021). Generally, it is an inaccurate method because of its focus on quantity of work instead of its quality or achievements. Monitoring of employees activities in their workplace and/or their remote place is a sensitive and often contentious issue. Rosengren and Ottosson (2016) indicate that many of the features of monitoring software are the same as those sold to parents to monitor their children's internet usage. Based on the examined data, only 1/5 of respondents are aware of their organization usage of Employee Monitoring Software to track their activities (see Table 1).

Table 1: Does your company use EMS?

Answer	Number	Ratio
Yes	123	21.0%
No	288	49.2%
Unsure	174	29.8%

Almost half of the e-workers surveyed think their activities are not being tracked by software. A big portion of employees is not familiar whether there is software tracking their activities (29.8 %). The proportion between Yes and No answers is 2/5. Taking this information as an input and extending it to the remaining 29.8% of the unsure ones, one gets an approximate distribution 12/18 (2/3) of Yes/No among the rest. Based on the data and approximation, one can conclude that about 33% of employees are monitored.

Only 1/10 of the face-to-display workers would trust their employer more using EMS as shown in Table 2.

Table 2: Would you have more trust in your company, if monitoring software was used to track your work?

Answer	Number	Ratio
Yes	56	9.6%
No	529	90.4%

It is interesting to observe that all 56 employees responding "yes" belong to the group of 123 those familiar with their tracking in Table 2. This confirms Ball and Margulis (2011) statement that monitoring tends to focus on problems and threats, a coercive supervisory style, rather than on success and empowerment. According to Kehinde and Okafor (2019), 46.5% of employees agree the e-monitoring facilitates an atmosphere of suspicion in the workplace. Table 3 indicates that roughly 4/5 of e-workers state that EM negatively affects their productivity.

Table 3: How would EMS affect your productivity?

Answer	Number	Ratio
More productive	56	9.6%
No effect	67	11.4%
Less productive	462	79.0%

Sarpong and Rees (2014) also report EM's counterproductive and negative impact on employees' productivity, commitment and attendance. They conclude that it could bring about an atmosphere of mistrust and hostility. The presented data emphasizes that the e-workers monitoring can negatively affect productivity. In the same vein, research data from Australia suggests that behaviors towards surveillance in the workplace play a crucial role in establishing whether surveillance systems and practices result in ineffective work behaviours (Martin et al., 2016). Both trust and transparency are core aspects of monitoring in the workplace (Timis and Gabelin, 2020).

Advanced technologies are allowing more diversified and prevalent monitoring and surveillance practices and are becoming more and more interlinked with data collection for the performance evaluation and management (Mateescu and Nguyen, 2019). According to Nord et al. (2006), the emonitoring reasons range from work-place harassment to a loss of productivity and even to company sabotage. A significant number of employers have been engaged in employee monitoring of various forms: from e-mail monitoring and website blocking to phone tapping and GPS tracking. The companies progressively fuse technology with policy to maintain productivity and minimize litigation, security, and other risks. To ensure conformity with rules and policies, more than 1/4 of employers have dismissed workers for inappropriate use of their e-mail and nearly 1/3 have dismissed employees for incorrect use of the Internet, according to the 2007 Electronic Monitoring & Surveillance Survey from American Management Association (AMA) and The ePolicy Institute (AMA, 2019). E-monitoring seems to be a blocking factor in e-working culture. As Table 4 indicates, the employees do not trust it.

Table 4: Is EMS reliable?

Answer	Number	Ratio
Yes	80	13.7%
No	505	86.3%

More than 4/5 of the face-to-display workers (86.3%) believe that EM software is not reliable as shown in Table 4. This group expects the manager to define the rules and to be targetoriented. At the same time, respondents who were not used to this kind of work culture agree that EM was reliable and effective (13.7%).

As stated by Thorstensson (2020) the productivity rises when employees have the impression that their organization has confidence in them and supports them, further supplies them with training, good project management and adequate resources to get their job done in time. In this case, the spread of Covid-19 caused many organizations problems due to a quick e-working implementation and not preparing a fair e-working culture. We agree with Kehinde and Okafor (2019) that an organization should inform employees before implementation of an EM system to produce positive reactions from employees as well as with Alder (2001) that bureaucratic cultures will answer more conducive to monitoring than supportive cultures.

4.2 Relationships

To learn more about the employees' attitudes, we juxtaposed their responses to the survey questions and provided their analysis.

"Does your company use Employee Monitoring Software?" and "How would Employee monitoring Software Affect your Productivity?"

Based on results of a contingency table of observed counts (see Table 5) those e-employees of companies where tracking software is used do not think that this tool reduces productivity. But all those face-to-display workers whose company does not have tracking software or are unsure about its use think that implementing of it would reduce productivity. It indicates that the companies should be open about their EMS usage and explaining its role to their employees.

Table 5: Observed Counts

		How would Software a	Total			
			More productive	No Effect	Less productive	1014
Does your	Vas	Count	56	57	0	123
company	Tes	%	45.5%	54.5%	0.0%	100.0%
use	Ne	Count	0	0	288	288
Employee	INO	%	0.0%	0.0%	100.0%	100.0%
Monitoring	Lingung	Count	0	0	174	174
Software	Unsule	%	0.0%	0.0%	100.0%	100.0%
Total		Count	56	67	462	585
rotat		%	9.6%	11.5%	79.0%	100.0%

Although Table 5 of observed counts contains zero frequencies, the conditions for a good approximation for the chi-square test of independence are met. All expected counts are higher than 5 (See Table 6).

Table 6: Expected counts

		How would Employee monitoring Software affect your Productivity			Total
		More productive	No Effect	Less productive	Total
Does your	Yes	11.8	14.1	97.1	123.0
company	No	27.6	33.0	227.4	288.0
use Employee Monitoring Software	Unsure	16.7	19.9	137.4	174.0
Tota		56.0	67.0	462.0	585.0

The P-value of the test is lower than the chosen level of significance, we reject the null hypothesis of independence.

Whether a monitoring system is implemented in the company affects the subjective opinion on productivity (See Table 7).

Table 7: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	585.000 ^a	4	0.000
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 11.77.

The final association has been measured by Cramer's V which equals to 0.707 (see Table 8) which is moderately strong and can be considered as strong relationships between variables.

Table 8: Cramer's V

		Value	Approximate significance
Nominal by Nominal	Cramer's V	0.707	0.000
N of Valid Cases		585	

"Would you have more trust in your company if monitoring software was used to track your work?" and "Does your firm utilize Employee Monitoring Software?"

All e-employees whose company does not have tracking software or are unsure of its utilization think that its introduction would not increase trust in the organization (see Table 9).

Table 9: Observed counts

		Would you trust in you if monitorin was used to wo	Total		
			No	Yes	
	Vac	Count	67	56	123
Does your	Yes	%	54.5%	45.5%	100.0%
company use		Count	288	0	288
Employee Monitoring	No	%	100.0%	0.0%	100.0%
Software	Linguage	Count	174	0	174
	Olisule	%	100.0%	0.0%	100.0%
		Count	529	56	585
Total		%	90.4%	9.6%	100.0%

Although the table 9 of observed counts contains zero frequencies, the conditions for a good approximation for the chi-square test of independence are met.

All expected counts are higher than 5 (See Table 10).

Table 10: Expected counts

		Would you hav your company software was your	Total	
		No	Yes	
Does your	Yes	111.2	11.8	123.0
company use	No	260.4	27.6	288.0
Employee Monitoring Software	Unsure	157.3	16.7	174.0
Total		529.0	56.0	585.0

The P-value of the test is lower than the chosen level of significance, we reject the null hypothesis of independence (see Table 11). Whether the monitoring system is implemented in the company affects the subjective opinion of trust in the company.

Table 11: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	232.608 ^a	2	0.000
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 11.77.

The final association has been measured by Cramer's V which equals to 0.631 (see Table 12) which is moderately strong and can be considered as strong relationships between variables.

Table 12: Cramer's V

		Value	Approximate significance
Nominal by Nominal	Cramer's V	0.631	0.000
N of Valid Cases		585	

"Would you have more trust in your company if monitoring software was used to track your work?" and "Is Employee Monitoring Software reliable?"

E-workers who think that monitoring software is reliable also believe in 70% that its utilization could increase confidence in the company in which they work. On the contrary, all those who doubt the reliability of monitoring software also do not believe that its implementation could increase confidence in the organization (see Table 13).

Table 13: Observed counts

			Would you trust in your monitoring s used to track	have more company if oftware was k your work	Total
			No	Yes	
Is Employee	Vac	Count	24	56	80
Monitoring	Monitoring Software reliable No	%	30.0%	70.0%	100.0%
Software		Count	505	0	505
reliable		%	100.0%	0.0%	100.0%
		Count	529	56	585
Total		%	90.4%	9.6%	100.0%

All expected counts are higher than 5 (See Table 14).

Table 14: Expected counts

			Would you hav your company software was us wo	we more trust in if monitoring eed to track your ork	Total	
			No	Yes		
	Is Employee	Yes	72.3	7.7	80.0	
Monitoring Software reliable No		No	456.7	48.3	505.0	
	Total		529.0	56.0	585.0	

The P-value of the test is lower than the chosen level of significance, we reject the null hypothesis of independence (see Table 15). Whether e-employees think that monitoring software is reliable affects a subjective view of trust in the company.

Table 15: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	390.922 ^a	1	0.000
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.66.

The final association has been measured by Phi which equals to - 0.817 (see Table 16) which is strong and can be considered as strong relationships between variables.

Table 16: Cramer's V

		Value	Approximate significance
Nominal by Nominal	Phi	0.631	0.000
N of Valid Ca	CAC	585	

"How would Employee monitoring Software Affect your Productivity?" and "Is Employee Monitoring Software reliable?"

Most e-employees (70%) who think that monitoring software is reliable believe that its utilization could increase work productivity. 30% of the respondents think that its utilization has no effect on labour productivity. The vast majority of eemployees (91.5%), who do not believe in the reliability of the monitoring system, think that its introduction would reduce labor productivity (See Table 17).

Table 17: Observed Counts

		How would Software at	Tatal			
			More productive	No Effect	Less productive	Total
Is	Vaa	Count	56	24	0	80
Employee	res	%	70.0%	30.0%	0.0%	100.0%
Monitoring		Count	0	43	462	505
Software No reliable?	%	0.0%	8.5%	91.5%	100.0%	
Total	Count	56	67	462	585	
Totai		%	9.6%	11.5%	79.0%	100.0%

Although the table 17 of observed counts contains zero frequencies, the conditions for a good approximation of the chisquare test of independence are met. All expected counts are higher than 5 (See Table 18).

Table 18: Expected counts

		How would			
		Software a	affect your Pr	oductivity	T. (. 1
		More	No	Less	Total
		productive	Effect	productive	
Is Employee	Yes	7.7	9.2	63.2	80.0
Monitoring Software reliable	No	48.3	57.8	398.8	505.0
Total		56.0	67.0	462.0	585.0

The P-value of the test is lower than the chosen level of significance, we reject the null hypothesis of independence. Whether e-employees think that a monitoring system is reliable affects a subjective view of work productivity (See Table 19).

Table 19: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	454.523 ^a	2	0.000
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.66.

The final association has been measured by Cramer's V which equals to 0.881 (see Table 20) which is strong and can be considered as a strong relationship between variables.

Table 20: Cramer's V

		Value	Approximate significance
Nominal by Nominal	Cramer's V	0.881	0.000
N of Valid	Cases	585	

4.3 Age group and gender test results

In the next step, associations between variables (age group and gender) were tested. In the first and third questions, the effect of the answers related to age of those questions was not confirmed as p>0.05, as shown in Table 21 and Table 22.

Table 21: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	3.224 ^a	2	0.200
N of Valid Cases	585		

a. 1 cells (16.7%) have expected count less than 5. The minimum expected count is 3.92.

Table 22: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	5.403 ^a	2	0.067
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.61.

Related to the productivity, the effect of the answers related to age of the second question was confirmed as p<0.05. People in age group 20-39 think less often than older generations that a monitoring system would reduce their activity (see Table 23 and 24).

Table 23: Observed Counts

			How would Software a	Tetal		
		More productive	No Effect	Less productive	Total	
	20-	Count	39	53	254	346
	39	%	11.3%	15.3%	73.4%	100.0%
Age	40-	Count	13	10	175	198
group	60	%	6.6%	5.1%	88.4%	100.0%
	60.	Count	4	4	33	41
	00+	%	9.8%	9.8%	80.5%	100.0%
Total		Count	56	67	462	585
		%	9.6%	11.5%	79.0%	100.0%

Table 24: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	18.206 ^a	4	0.001
N of Valid Cases	585		

a. 2 cells (22.2%) have expected count less than 5. The minimum expected count is 3.92.

The final association has been measured by Cramer's V which equals to 0.125 (see Table 25) which is moderate and can be considered as a moderate relationship between variables.

Table 25: Cramer's V

		Value	Approximate significance
Nominal by Nominal	Cramer's V	0.125	0.001
N of Valid Cases		585	

Further investigation of gender relationships to three questions has not been confirmed. All p-values of the tests are higher than the selected significance level of 0.05 as demonstrated in Table 26, 27 and 28.

Table 26: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	3.506 ^a	1	0.061
N of Valid Cases	585		
0 11 (0 00() 1		1	

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 25.37.

Table 27: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	4.346 ^a	2	0.114
N of Valid Cases	585		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 25.37.

Table 28: Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	2.671 ^a	1	0.102
N of Valid Cases	585		
a 44 (a a · · ·) 4			

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 36.24.

5 Discussion

Based on the results of this paper, 1/5 of respondents believe that their employer use employee monitoring software to track their activities. We have shown above why 1/3 is a more reasonable estimation.

To track or not track, that is a question many companies face regardless if employees are working remotely or not. Therefore, monitoring should be more closely examined to find answers for the following questions: Can we monitor everything? Should we track our talent? How to set the limits to the managers? Should the economic incentive be the main driver?

An investigation undertaken by Atlas VPN indicates that spying a single e-employee costs 7 dollars a month on average (Alex, 2020). 79% of face-to-display workers say monitoring software does affect their productivity (being less productive), comparably almost the same data as Clutch survey (Roddy, 2020). Possibly, the managers who defend EM by boosting productivity in the place of work may want to practice the following: to assuage or to eliminate bureaucracy, to revise all systems and to recognize their high quality employees, to overcome problems, to share their vision throughout the organization, to question the employees and to listen to them carefully, to be honest and to have integrity, to turn their customers into their strategic partners, and to develop effective performance-based pay plans (Moss, 2006). Skeptics also contend that there is no definitive evidence to suggest that productivity decreases because employees may be using electronic devices for non-work purposes (Riedy and Wen, 2010).

Every organization using modern technology at its workplace has got the hardware to implement monitoring. To do the electronic monitoring, any organization needs a "good" reason. The definition of "good" is, of course, unclear and depends on the environment in which it exists and the perceptions of the employees and managers (Sanders et al., 2013). Accordingly, it needs to establish (or revisit) its policies to ensure effective use depending on both sides.

The level of trust is a rule (Benetytè and Jatuliavičienè, 2013) as workplace environments rely more on trust and transparency: treated like adults, employees can do what they want, when they want, provided that the work gets done (Ressler and Thompson, 2010). This corresponds with the traditional workplace motivation theories such as Hackman and Oldham's job characteristics model that originated in 1974 and is still relevant today (Hackman and Oldham, 1974). According to Hackman and Oldham (1976) the employee's intrinsic motivation to perform effectively in their jobs is enhanced by five job characteristics: skill variety, task variety, task significance, autonomy, and feedback. The issue of employee monitoring is mainly concerning autonomy. More recent studies confirm that various forms of autonomy have positive impact on the increase in job performance caused by an increase in intrinsic motivation (Aghion et al., 2013; Beckmann et al., 2017; Bloom et al., 2011). As Deci and Ryan (2000) claim, employees who are trusted, are committed to their employers and demonstrate high intrinsic motivation in their job performance.

6 Conclusion

E-surveillance and e-monitoring in the workplace have developed in parallel with paradigm changes in the manufacturing industry and traditional production operations from the physical to the virtual world. Emerging technologies now enable different types of modern surveillance, often described as an oppressive Panopticon (Leth Jespersen et al., 2007) that could be used for benevolent or immoral aims. Rosengren and Ottosson (2016) say the relationship between trust and monitoring is a two-way street. It is difficult to perceive monitoring without trust as ethical or sustainable (Indiparambil, 2019). Ariss et al. (2002) advise managers to use trust rather than monitoring to increase their workers' performance. This confirms also recent studies about the e-working extension (Beno et al., 2021; Beno and Hvorecky, 2021).

The main research questions investigated in this paper are:

RQ1: Is better to leave room to e-employees instead of spying them?

Based on our results, 1/5 of respondents believe that their organization uses employee monitoring software to track their

activities. Almost half of the e-workers consider that their activities are not being tracked by software. Only nearly 1/10 of the face-to-display workers would trust their employer more using EM. Yes, out of 123 official tracked e-employees, only 56 face-to-display workers would trust their employer more using the EM and these workers state that EM does affect their productivity.

RQ2: Would e-employee monitoring software affect productivity?

Yes, roughly, 4/5 of e-workers state that EM does affect their productivity. Presented data emphasizes that companies using face-to-display workers monitoring software can negatively affect morale and productivity instead of production of good work. Moreover, Beno and Hvorecky (2021) highlight those who do not feel comfortable with e-work tend to be less productive.

RQ3: Is e-employee monitoring software reliable?

E-monitoring seems to be a blocking factor in e-working culture. Almost all e-employees (86.32%) agree that the manager need to define the rules and be target oriented. But those respondents where the employees were not used to this kind of work culture agree that EM was reliable and effective (13.68%).

The primary objective of this paper work was to address the issue of e-monitoring in the e-working environment. It explored the impact of monitoring on e-employees in the digital work environment whether tracking the employees' activities in eworkplace represents an optimal factor in e-working culture. EM started in the past as tracking web browsing, online shopping, checking social media or looking at sports scores. A study by Greenfield and Davis (2002) highlight that the respondents spent an average of 3.24 hours per week on personal Internet usage while at work. Additionally, around 14% of the UK workforce spends almost half of their time on the Internet for personal use (Newcombe, 2013). Modern technology, diversity in technological capabilities and not necessarily ethical outlook (Pitesa, 2012) and e-working enables tracking of employees activities. A recent study highlights the rise of surveillance software (51%) since the start of pandemic (Migliano, 2020). But e-monitoring seems to be a blocking factor in e-working culture. EM can create a lack of trust (Mujtaba, 2003). The Deloitte Global Millennial survey of 2019 found that 55% of millennials plan to leave employers that prioritize profits over people (Deloitte, 2019).

Topics revealed in this paper have implications for future research in the area of monitoring the e-workers. Future researchers must begin by exploring these issues directly with those who face them (a qualitative approach). Important seems to be the post-Covid-19 time of the workplace environment in trying to establish some form of balance or harmony between all parties in the e-working, hybrid and cubicle workplace environment. The authors leave all these questions for future research: Are there individual pros of e-monitoring compared to alternatives?, Will employees agree with the willingly self-monitoring? and can accepted and transparent e-monitoring still be immoral?

This paper has some limitations. Firstly, data gathering occurred by means of e-mail questionnaires because of distance, economic aspects and pandemic. There is no guarantee that the researchers drew all possible information from the participants that could be used in the analysis of the data and results. However, the quality of the data depends upon the quality of the questions asked (Beno and Hvorecky, 2021). Secondly, the sample does not reflect the population by sectoral structure. Thirdly, because of time lack the questionnaire were not translated into mother languages of respondents. Lastly, the researchers have no way of ascertaining whether the respondents replied honestly or not. It should be stated that results from this study do not necessarily reflect how workers used to work (in-house, hybrid or remote) will evolve in the post-pandemic period.

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