Bridging Industry 4.0 Amidst The Pandemic

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Abstract
Changes in alert levels in different parts of the Philippines change from time to time, and we do not know when they will stop for good. The majority of the industry sector suffered from the devastating effect of the pandemic problem and the war between Ukraine and Russia. Many of the constituents lost their jobs because the majority of the companies suffered from closure. The government should think back on how the economy of the Philippines may survive and recover by strengthening the facilities for Industry 4.0 by connecting factories and government institutions to all transactions. By proposing this kind of project, the government can strengthen the enactment of the Work from Home Law and, at the same time, we can do online, real-time transactions including virtual conferences, training, bank transactions, and other transactions that can be done online. The benefits of Industry 4.0 will be able to help our economy by bridging and connecting all business sectors on one platform. With this, it will be a big help to the Philippine economy.

Keywords
Industry 4.0, bridging, realtime

Introduction
Changes in alert levels in different parts of the Philippines change from time to time, and we do not know when they will stop for good. The majority of the industry sector suffered from the devastating effect of the pandemic problem and the war between Ukraine and Russia. The cause and effect of those tragedies affected the business-economic sector and resulted in the closure of businesses. Most of the workers suffered from layoffs and lost their jobs. The government should think back on how the economy of the Philippines may survive and recover by strengthening the facilities for Industry 4.0 by connecting factories and government institutions to all transactions. The pandemic has accelerated society's digital transformation towards Industry 4.0 (the fourth industrial revolution). The technologies of this transformation can be predicted to be raised in the economic secto, (Moosavi, Javad, & Igor, 2021)

By implementing this kind of project, the government can strengthen the enactment of the Work from Home Law and, at the same time, we can do online, real-time transactions including virtual conferences, training, bank transactions, and other transactions that can be done online. The benefits of Industry 4.0 will help
our economy by bridging and connecting all business sectors on one platform. With these, it will be a big help to the Philippine economy. Industry 4.0 technologies will increasingly develop more intelligent products and assets that can capture more information and integrate more deeply into the new normal of business processes amidst the pandemic (Umbarkar, Serafin, & Betti, 2021)

**Objectives**

1. Determine the challenges brought up by the pandemic in the Sectorial industry
2. Determine the advantages of using Industry 4.0 amidst the pandemic.

**Methodology**

The researchers use a case study type of research and the sampling size is composed of 20 respondents randomly selected from the different parts of the province of Zambales, Philippines. The interview will be done online using Google Form, and the data collection process will be tallied immediately once the process is completely conducted.

**Results and Discussions**

**Challenges brought up by the pandemic in the Sectorial industry**

![Figure 1. Challenges brought up by the Pandemic](image)

Figure 1 shows that 85% of the respondents say that there are lots of challenges brought up by the pandemic in different sectorial areas like business transactions were forced to implement industry 4.0 in the fields of healthcare, agriculture, and education. The challenges were further evaluated through the expert opinion of Industry 4.0 systems experts to gauge business sectors interest in Industry 4.0 technologies to solve the current pandemic situation. (Hussain, 2021)

**The advantages of using Industry 4.0 amidst the pandemic**

![Figure 2. Advantages of using Industry 4.0 amidst the pandemic](image)
Figure 2 shows that 78% say that there is a big advantage in implementing Industry 4.0, especially in times of pandemic.

Conclusions
Finally, Industry 4.0 caters to the current trends of information technology enabled manufacturing technologies, which include cyber systems, the Internet of things, and cloud computing technology (i-SOOOP, 2022). This will help to boost the economy and create more jobs in our constituents areas during this difficult time. These are examples developed during the COVID-19 Pandemic in response to the Industry 4.0 requirement to continue the processes of global economic problems that we are facing right now. According to this author (Mobo & Garcia, 2020)

Recommendations
There is a need to strongly recommend to the different industry sectors that the implementation of Industry 4.0 must be immediately addressed.

References