

## SUMMARY OF MASTER'S DISSERTATION

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<p>Title</p> <p style="text-align: center;"><b>Economical impact and CO2 reduction by increasing teleworks</b></p>			
<p><b>Abstract</b></p> <p>In recent years, telework has acquired a lot of attention from society as a mean of working as to the development of information technology. It is especially beneficial for improving work-life balance (harmony of work and life) and thus government aims at promoting telework. However, there are not sufficient s researches on the issue that quantitatively analyzed the impact of telework in Japan. This research evaluates the impact of telework on industries mainly from the viewpoint of economy and CO2 reduction.</p> <p>I divided telework into two categories; telecommute and mobile telecommute. When telework becomes popular, I assumed that 5 divisions were expected to have the biggest change in final demand; real estate, electric machine, information and communication, oil, electricity. I analyzed how the change of the final demand of these 5 divisions affects the industry structures.</p> <p>The followings are the findings compared to the GDP in 2005 and the CO2 reduction in 2009:</p> <p>[The amount of gross domestic product]</p> <p>Telecommute: 6.036 trillion yen decreasing</p> <p>Mobile telecommute: 11.78 trillion yen decreasing</p> <p>[CO2 reduction]</p> <p>Telecommute: 17.3 million ton decreasing</p> <p>Mobile telecommute: 1.73 million ton decreasing</p> <p>As for real estate division which has the biggest influence on the industry structure, re-telework design leads to the following results:</p> <p>[The amount of gross domestic product]</p> <p>Telecommute: 1.6 trillion yen increasing</p> <p>Mobile telecommute: 5.9 trillion yen increasing</p> <p>[CO2 reduction]</p> <p>Telecommute: 0.8% decreasing</p> <p>Mobile telecommute: 1.5% increasing</p> <p>The analysis revealed that telework had possibility to have good effects on GDP and CO2 reduction considering the categories of telework and the change of industry structure.</p> <p><b>Keywords : Telework, Input-Output-Table Analysis, Economical impact, Information Society, CO2 reduction</b></p>			