

# Life Cycle Assessment for Galaxy Book6 16(UK)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

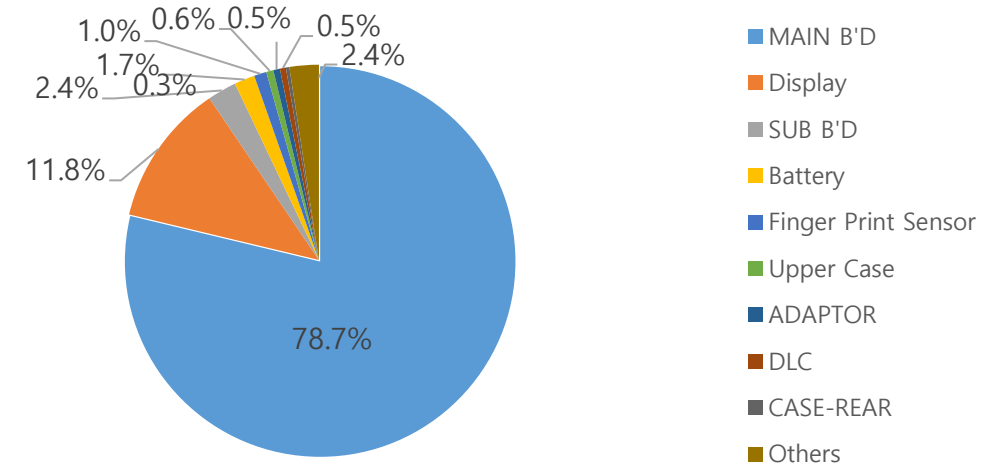
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UK
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

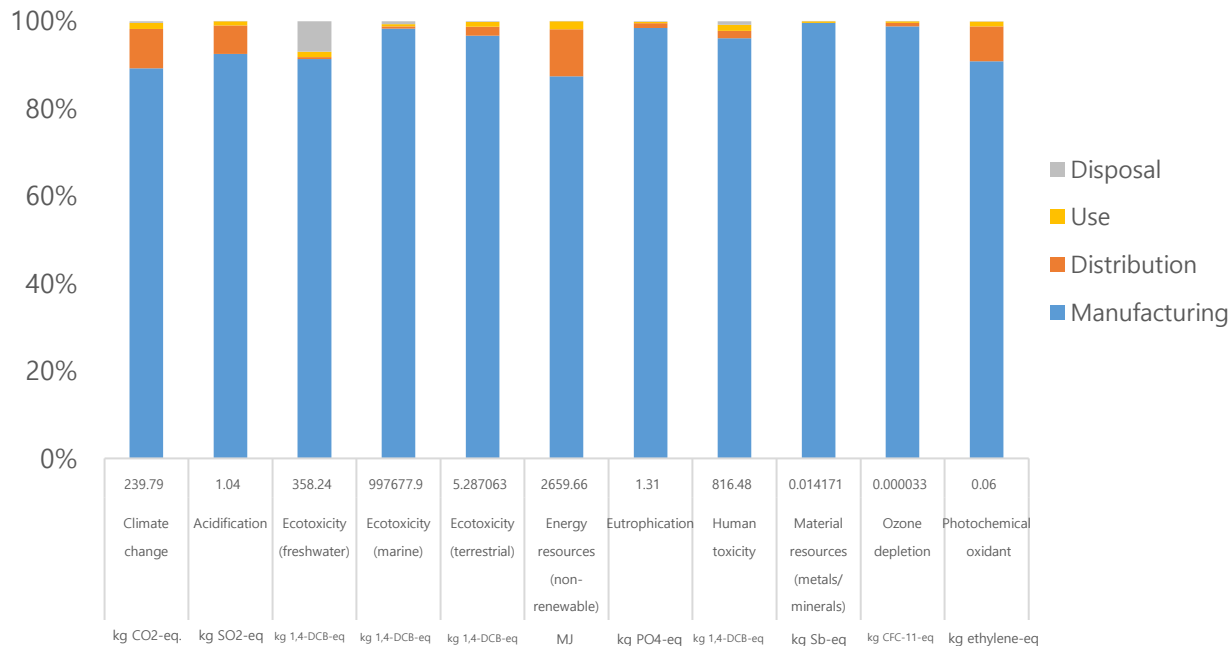


Model name	<b>Galaxy Book6 16 (NP761BJGF)</b>	
Dimension (mm)	<b>357.1 x 248.0 x 14.9</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1909.47</b>
	<b>Packages</b>	<b>798.58</b>

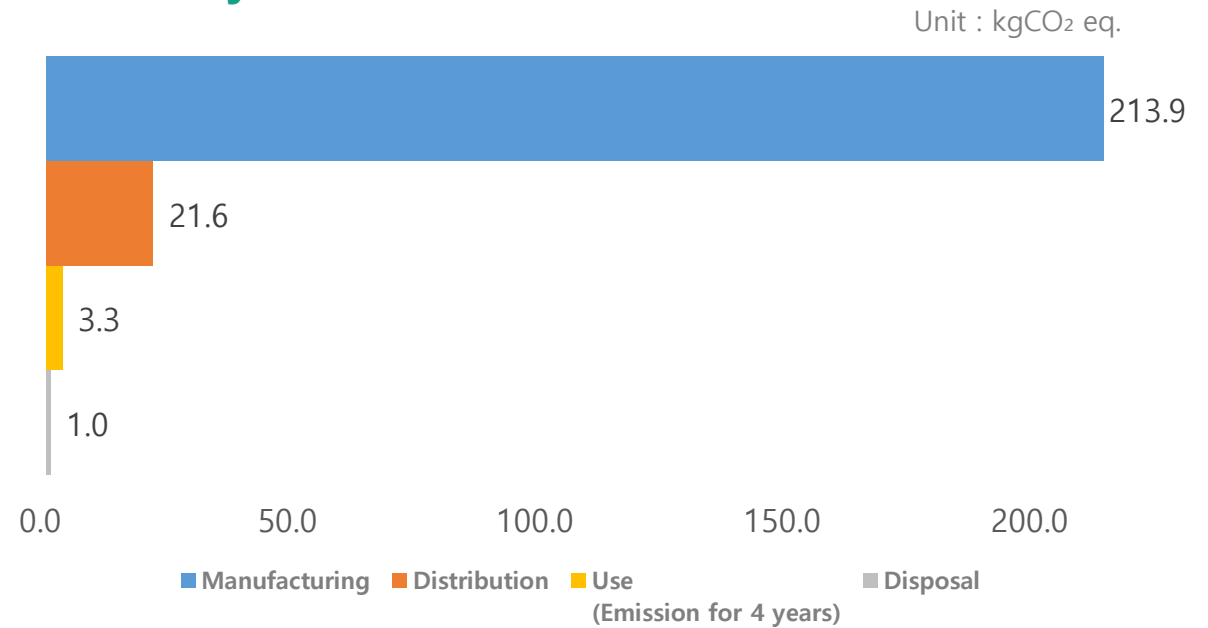
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 Edge(DE)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

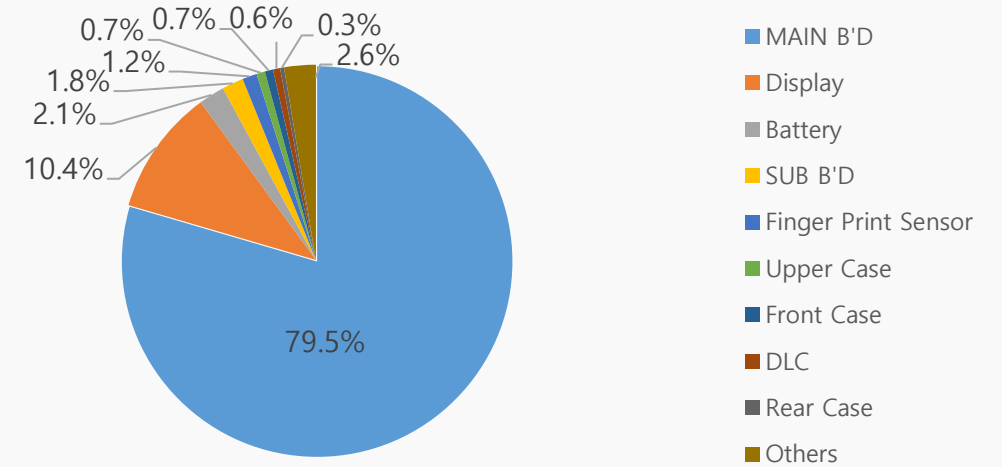
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to DE
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

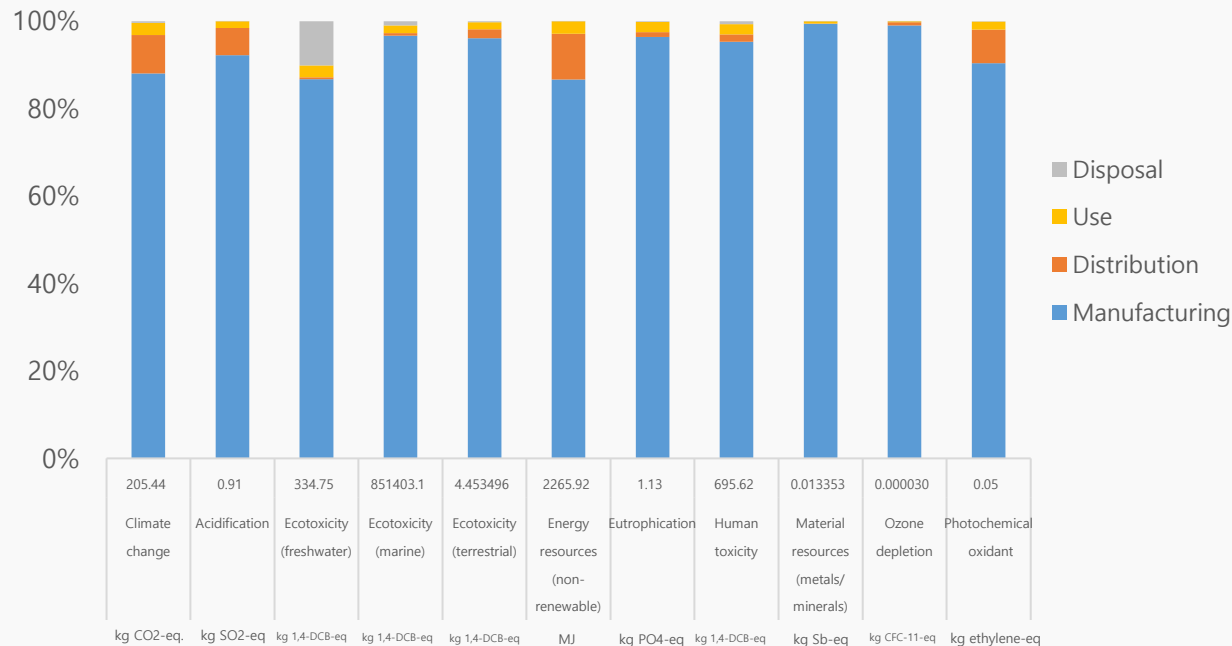


Model name	<b>Galaxy Book6 Edge (NP960XRDA)</b>	
Dimension (mm)	<b>355.4 x 250.4 x 12.3</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1589.56</b>
	<b>Packages</b>	<b>803.90</b>

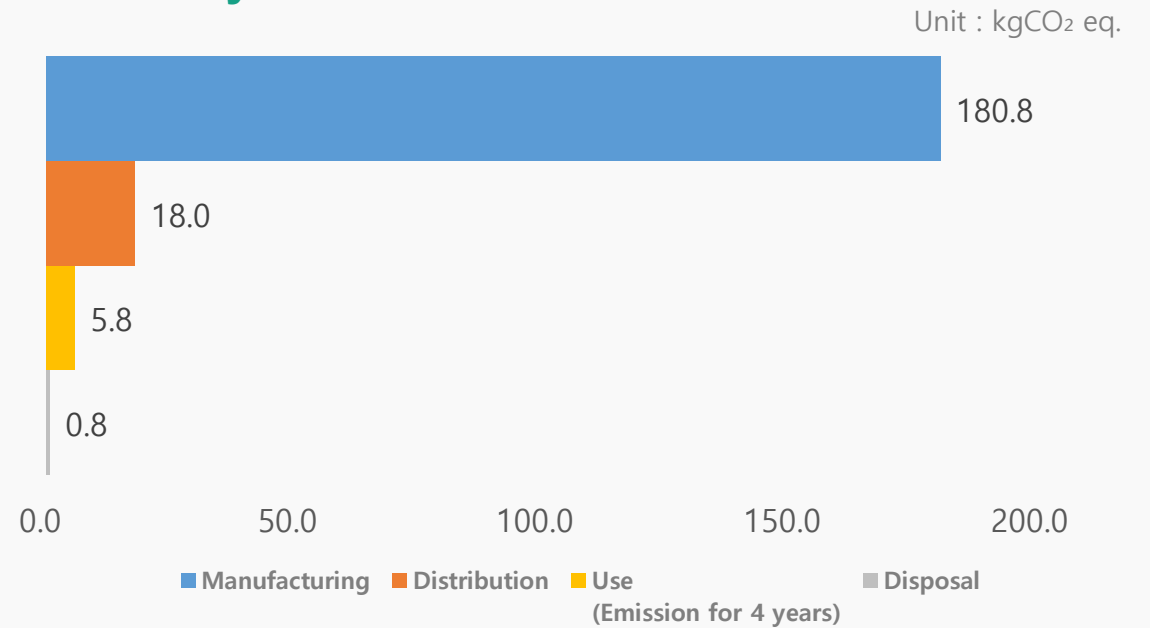
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 16(US)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

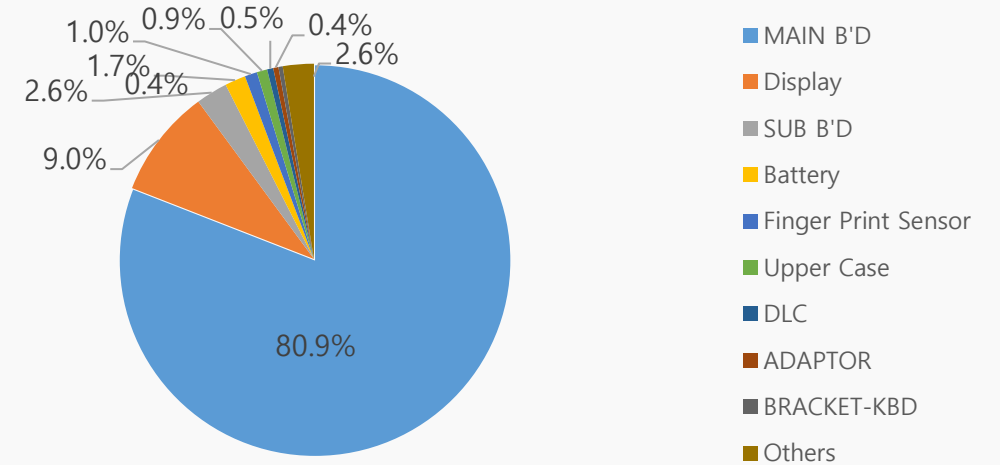
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features



Model name	<b>Galaxy Book6 16 (NP760XJGF)</b>	
Dimension (mm)	<b>357.1 x 248.0 x 16.8</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1959.05</b>
	<b>Packages</b>	<b>806.82</b>

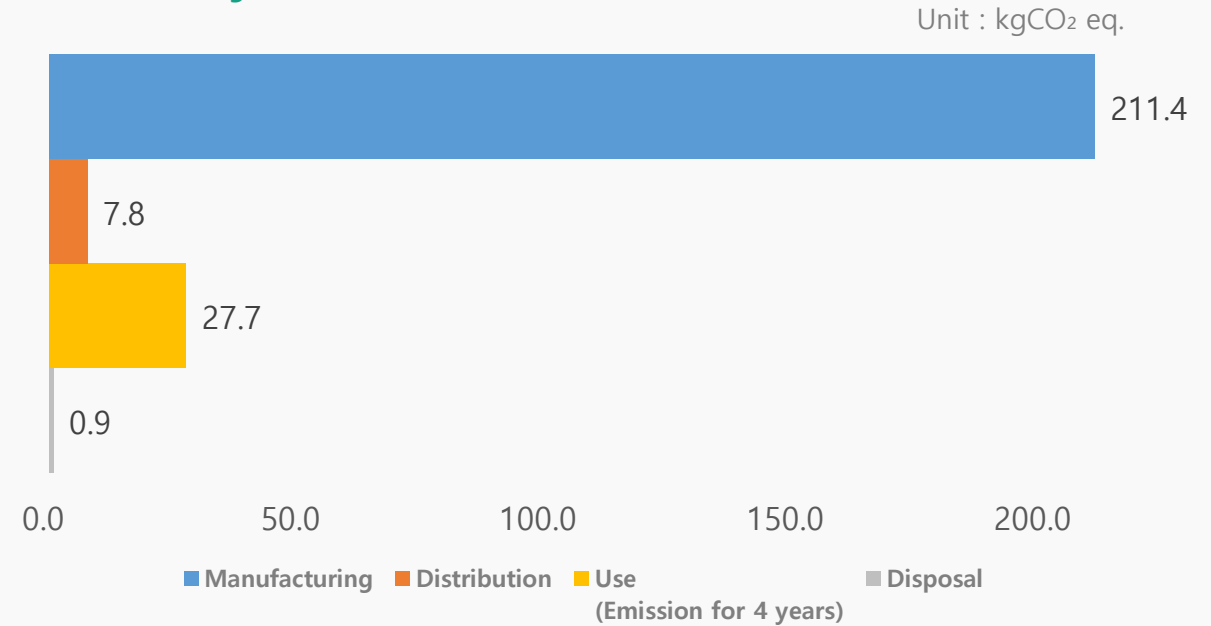
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 16(KR)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

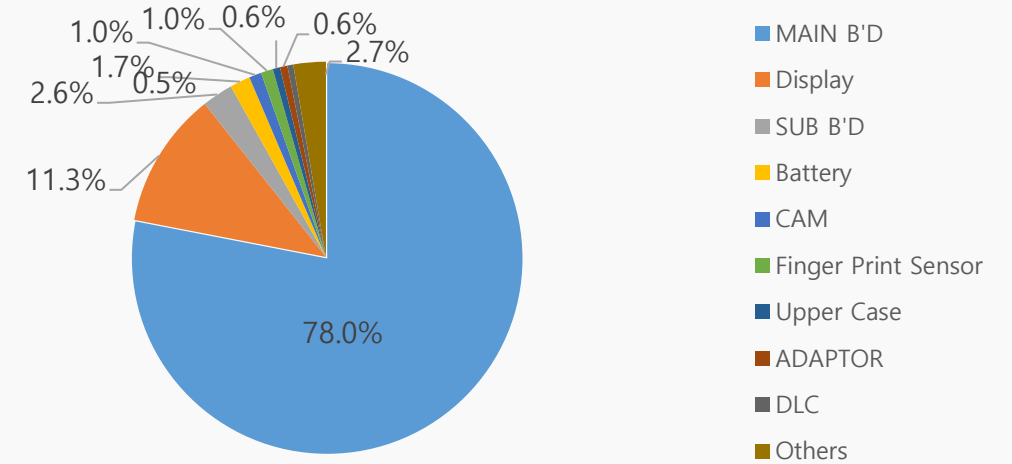
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

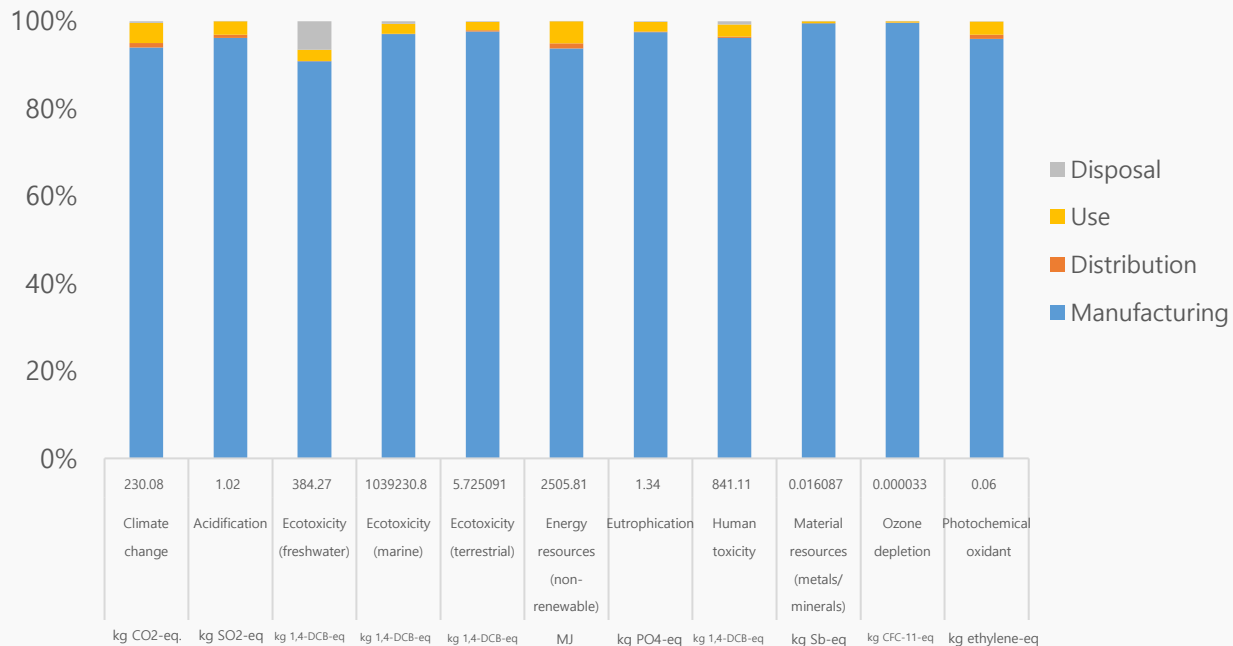


Model name	<b>Galaxy Book6 16 (NP760VJGF)</b>	
Dimension (mm)	<b>357.1 x 248.0 x 14.9</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1902.53</b>
	<b>Packages</b>	<b>1021.33</b>

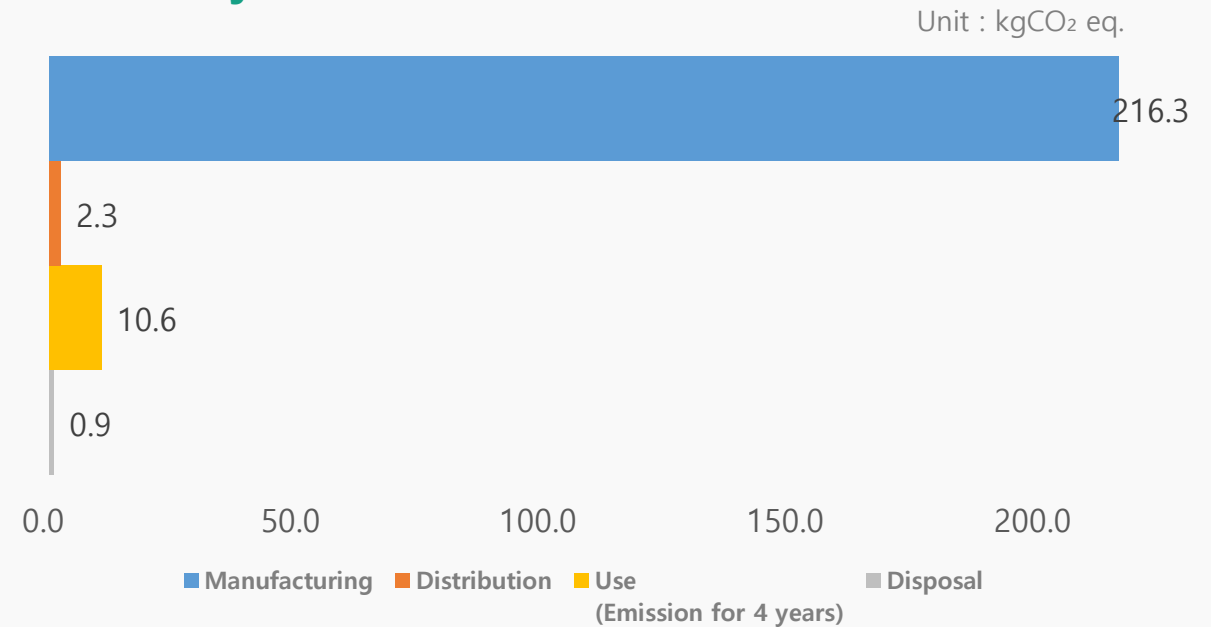
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 Ultra INT(US)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

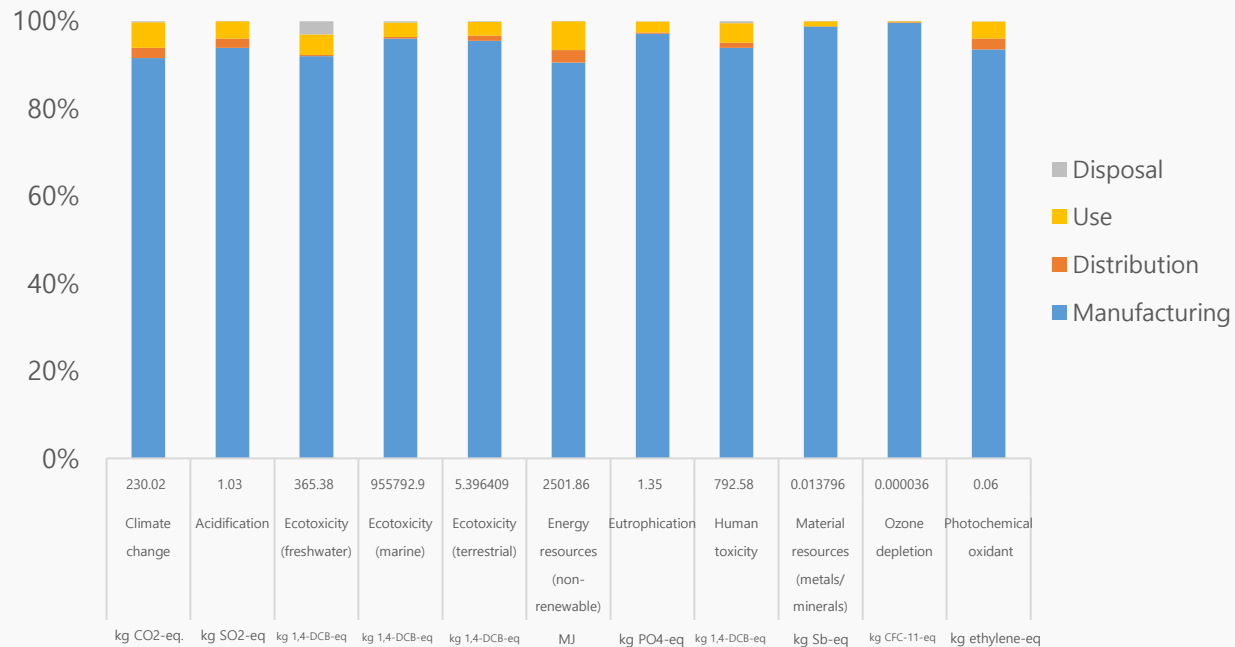
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

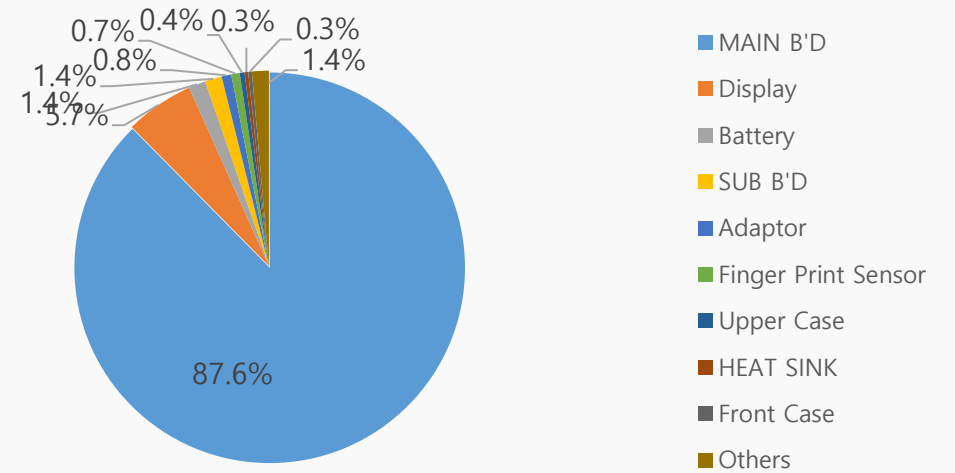


Model name	<b>Galaxy Book6 Ultra INT (NP960UJGD)</b>	
Dimension (mm)	<b>356.9 x 248.0 x 15.9</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>2091.85</b>
	<b>Packages</b>	<b>988.81</b>

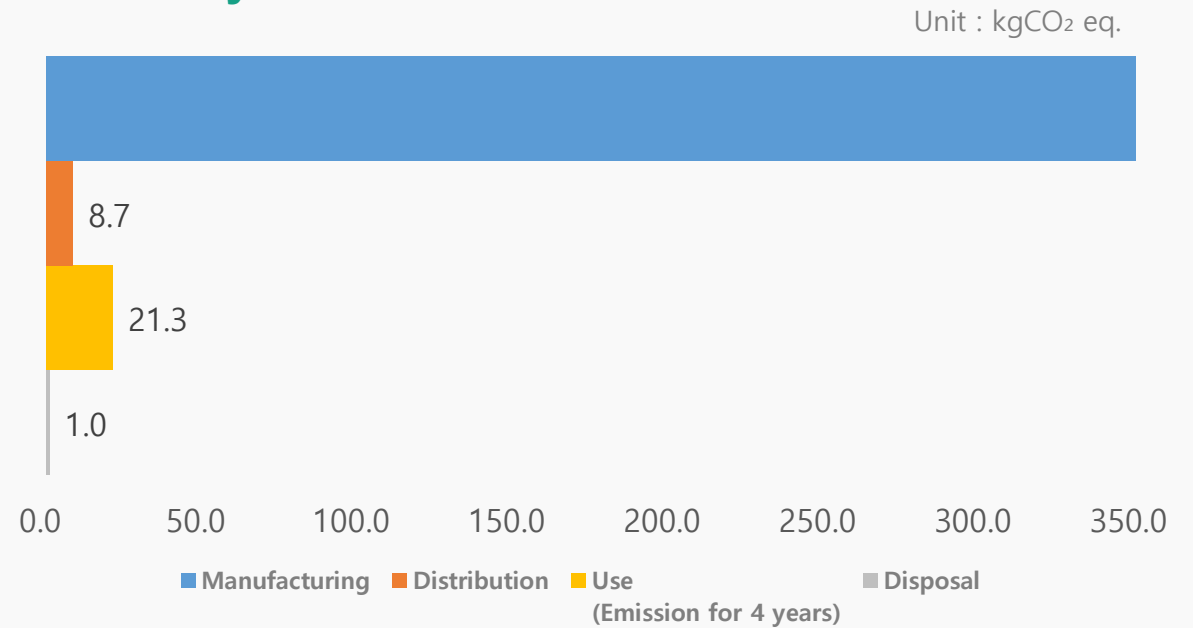
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 Ultra EXE(KR)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

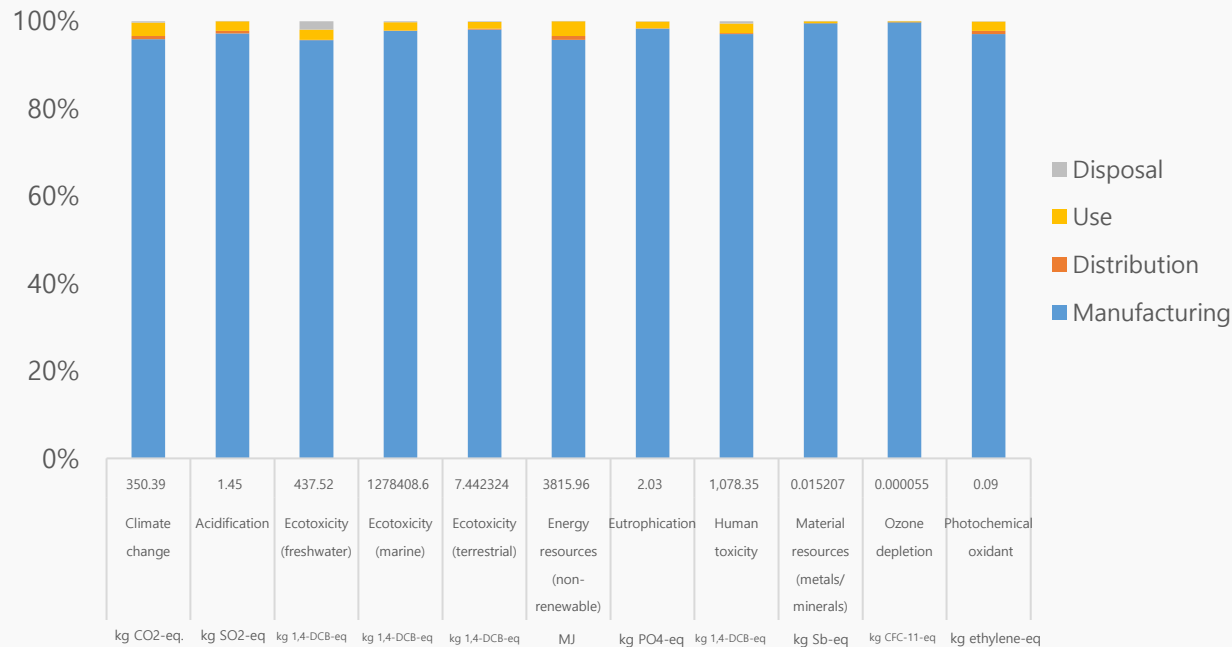
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

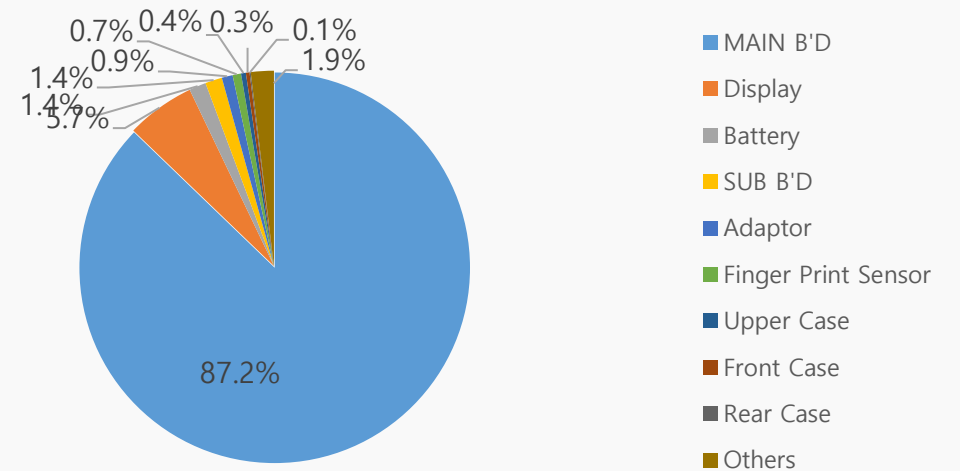


Model name	<b>Galaxy Book6 Ultra EXE (NP960UJHE)</b>	
Dimension (mm)	<b>356.9 x 248.0 x 15.4</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>2251.32</b>
	<b>Packages</b>	<b>991.86</b>

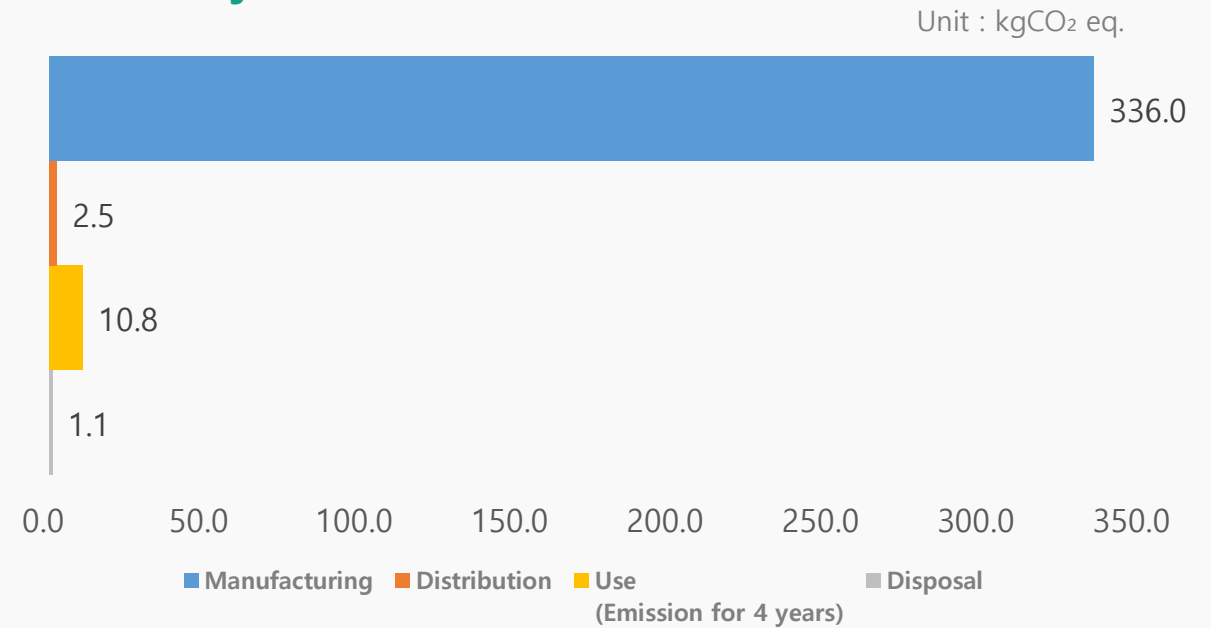
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 Pro 16(KR)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

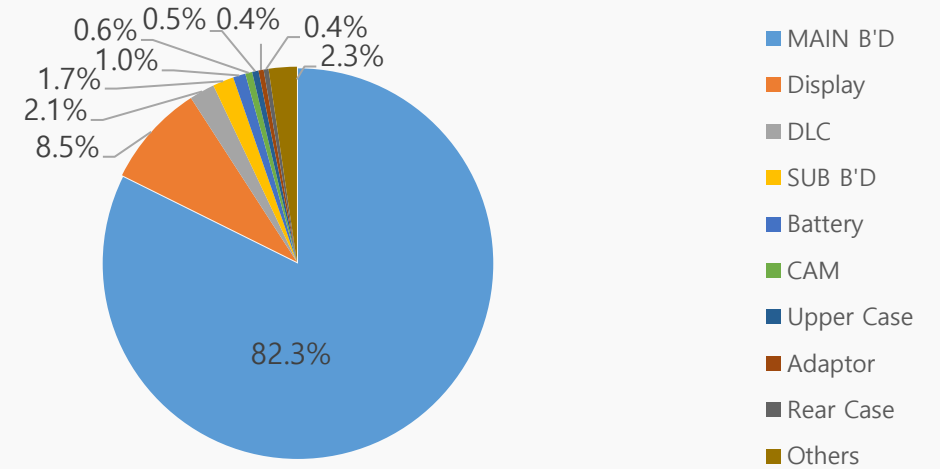
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

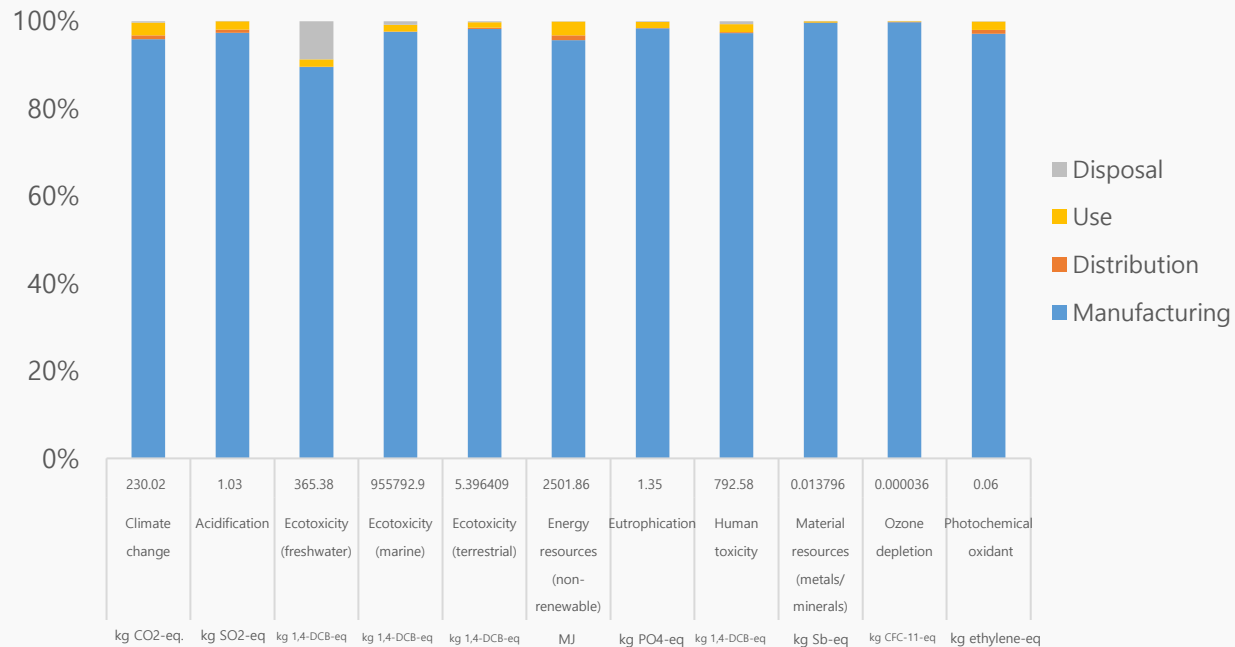


Model name	<b>Galaxy Book6 Pro 16 (NT960XJGD)</b>	
Dimension (mm)	<b>356.9 x 248.0 x 11.9</b>	
Display (mm)	<b>406</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1794.57</b>
	<b>Packages</b>	<b>838.87</b>

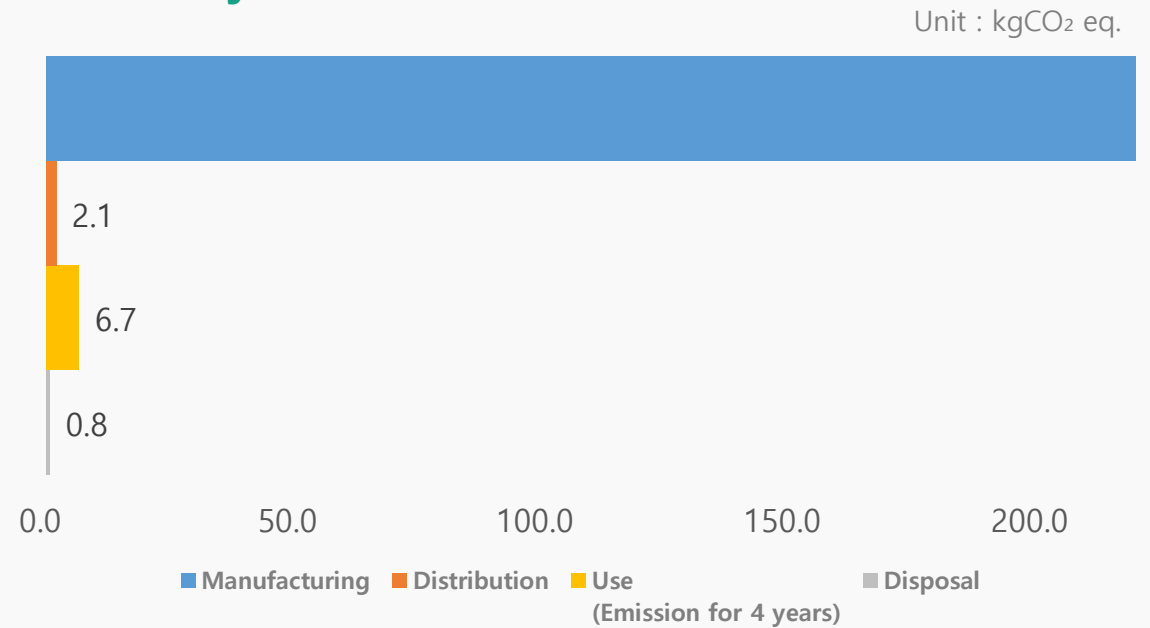
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book6 Pro 14(KR)

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040/44 series. Samsung has used SDP(Sustainability Data Platform) to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 11 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

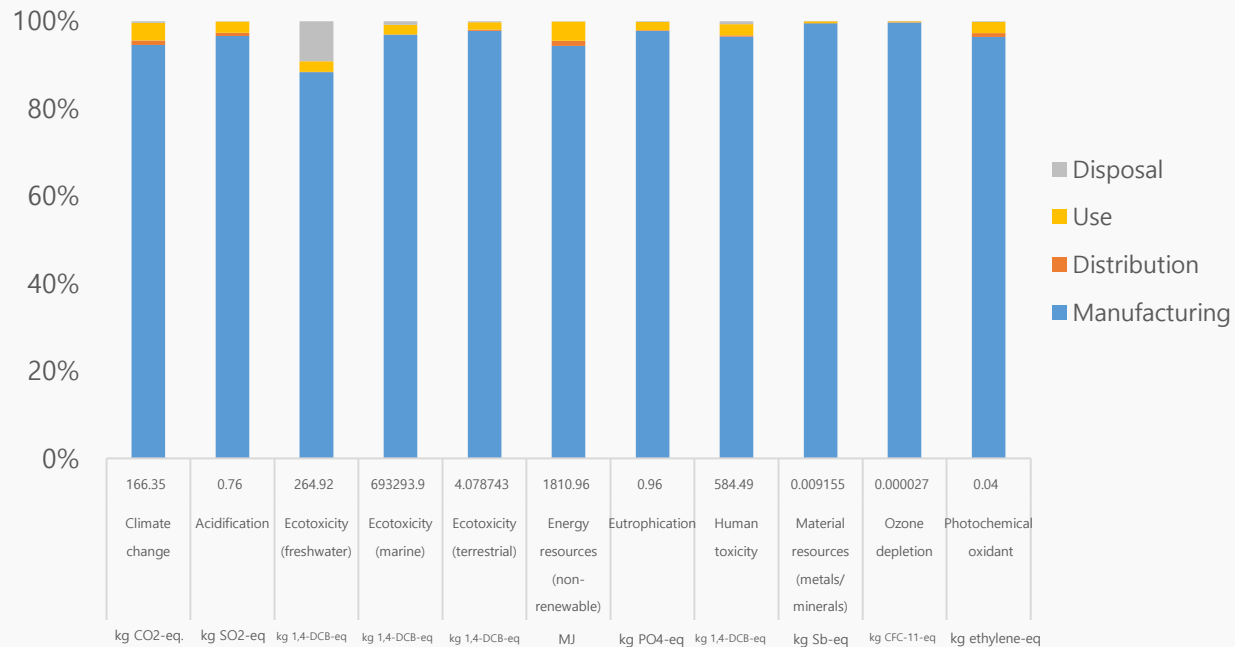
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

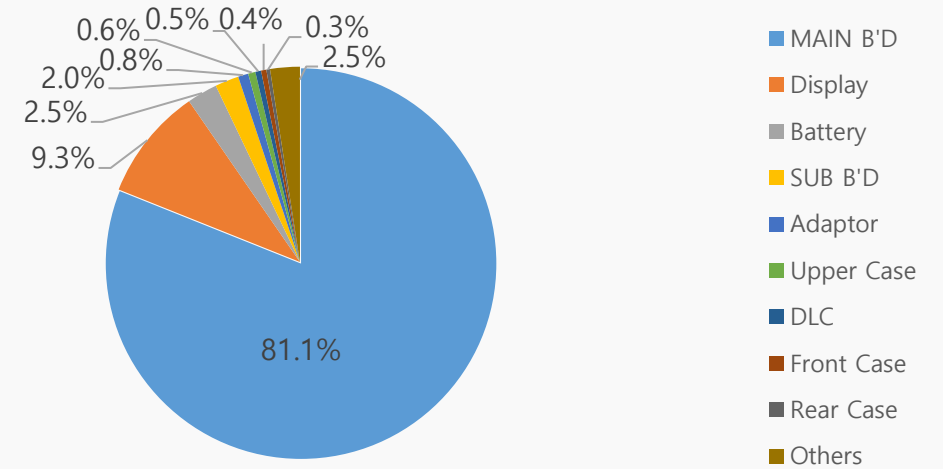


Model name	<b>Galaxy Book6 Pro 14 (NT940XJGD)</b>	
Dimension (mm)	<b>314.2 x 220.6 x 11.6</b>	
Display (mm)	<b>356</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1420.30</b>
	<b>Packages</b>	<b>684.98</b>

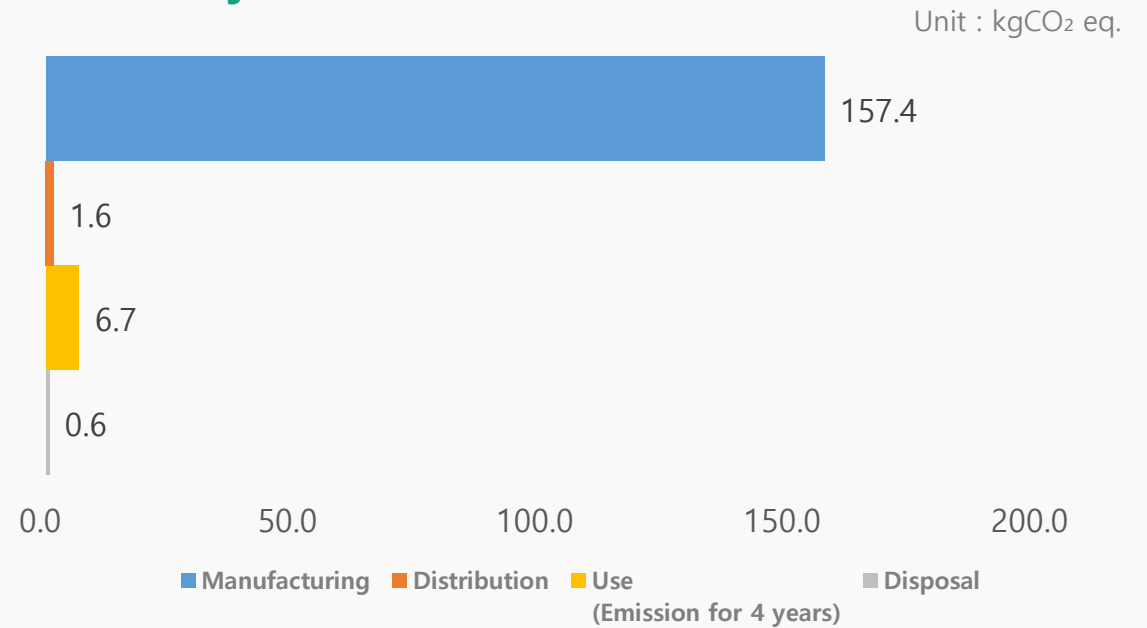
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Chromebook 3 360(KR)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

Manufacturing	Parts and materials constituting the products and its transportation Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

SDP\* : Sustainability Data Platform

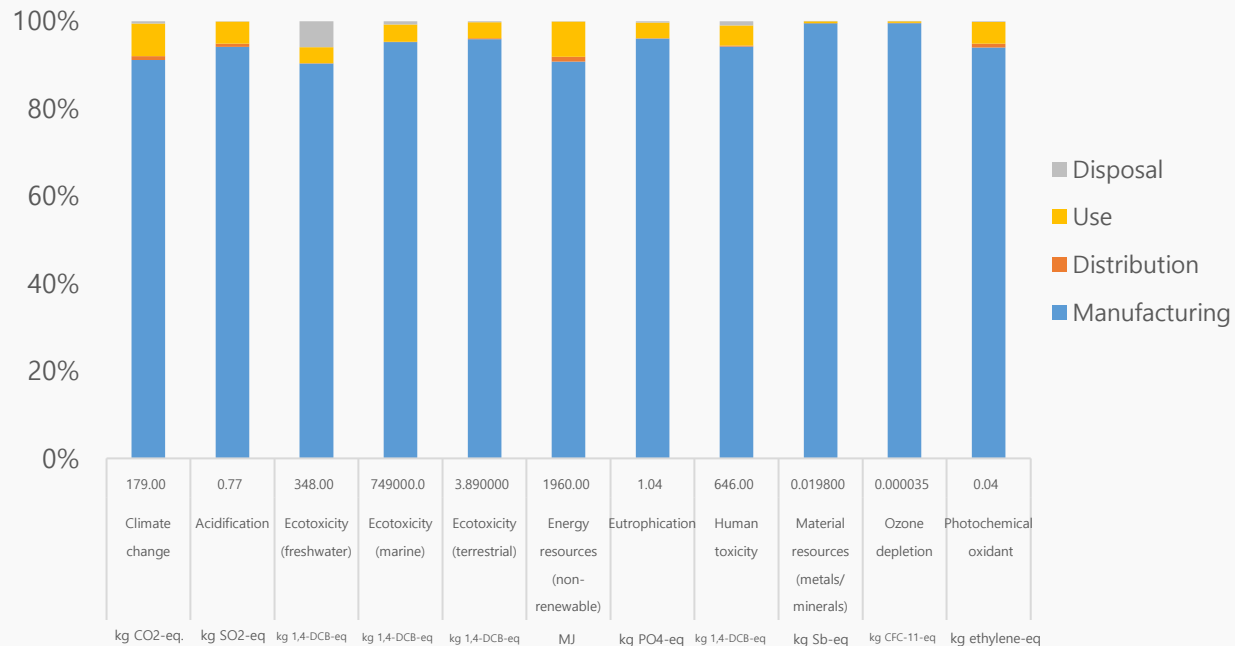
BOM\*\* : Bill of Material

## ● Product Features

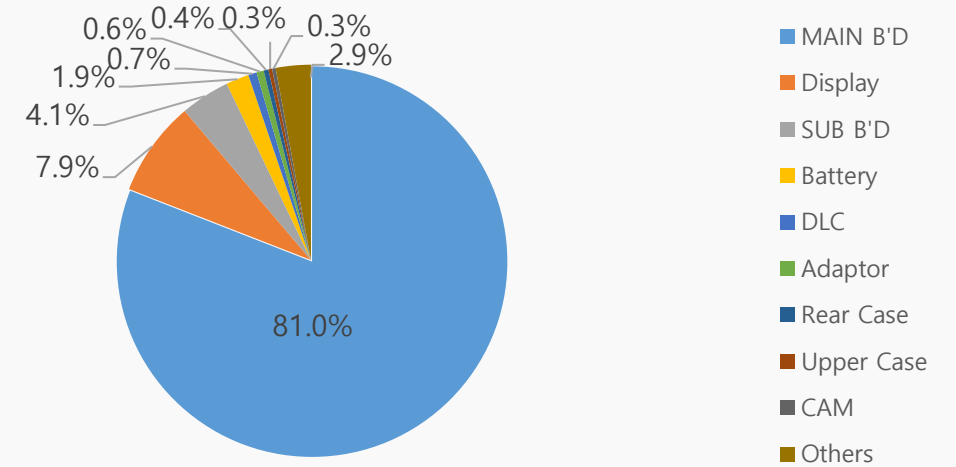


Model name	<b>Galaxy Chromebook 3 360 (XQ520QHA)</b>	
Dimension (mm)	<b>287.9 x 206.6 x 16.9</b>	
Display (mm)	<b>315</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1422.43</b>
	<b>Packages</b>	<b>637.66</b>

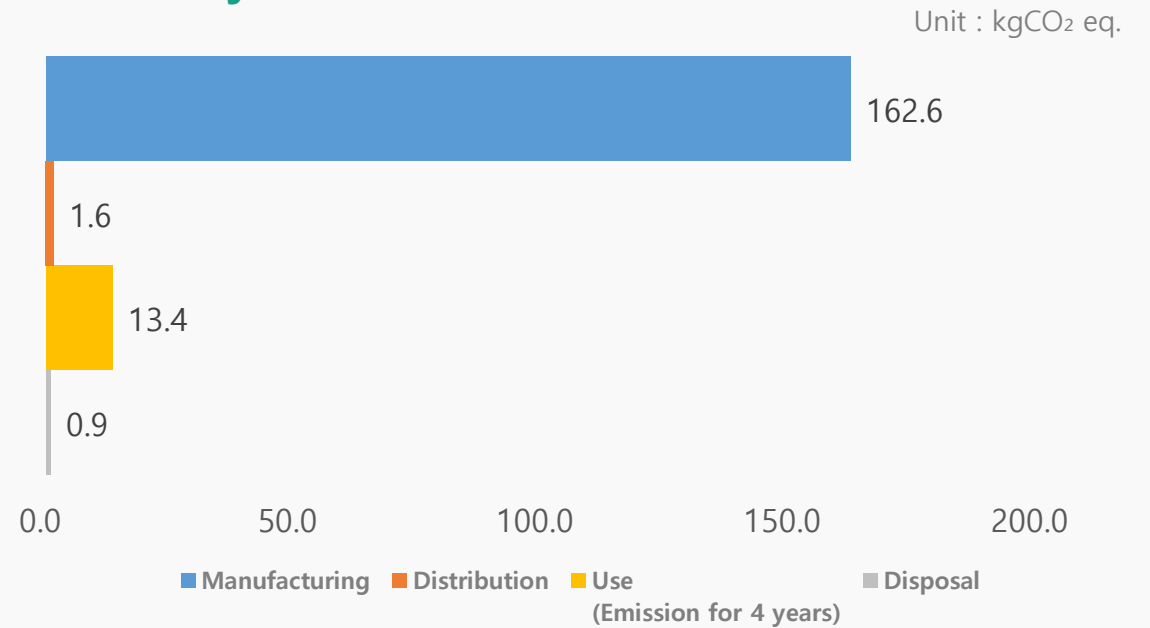
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 (US)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

LCA Report Issuance Date : Aug. 05, 2025

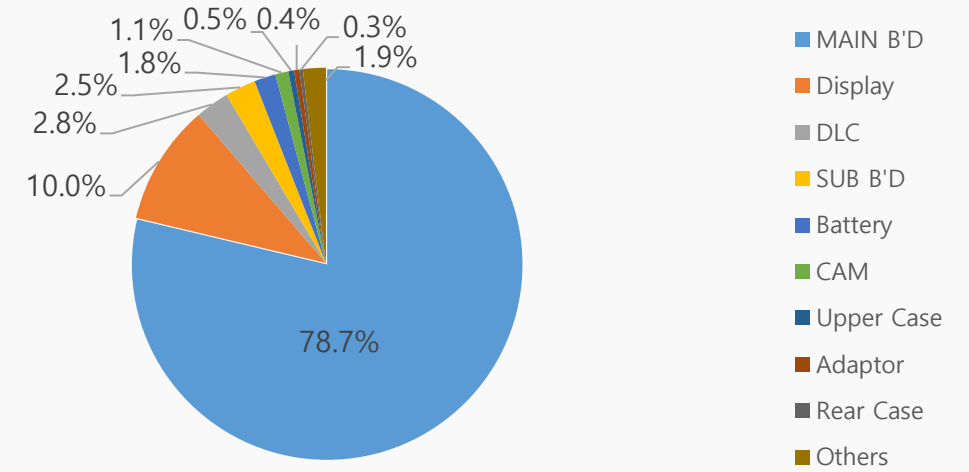
Webpage Publication Date of Summary of LCA : Sep. 30 , 2025

## ● Product Features

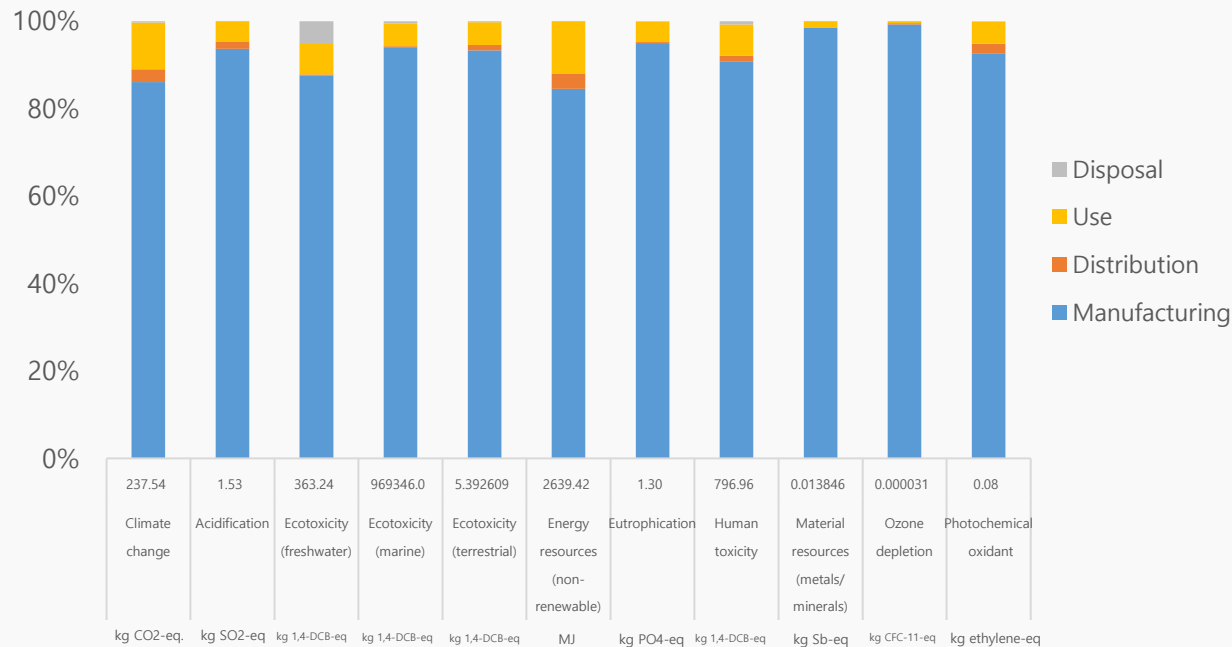


Model name	<b>Galaxy Book5(NP750XHD)</b>	
Dimension (mm)	<b>356.6 x 228.0 x 15.1</b>	
Display (mm)	<b>396</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1712.44</b>
	<b>Packages</b>	<b>759.17</b>

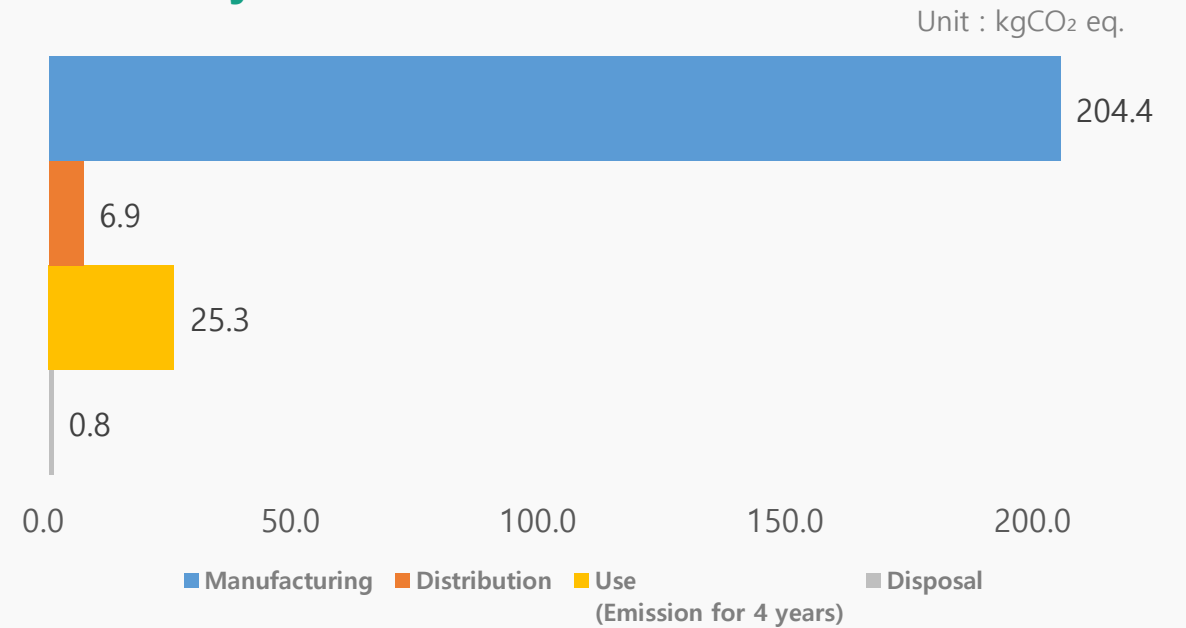
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 16(KR)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

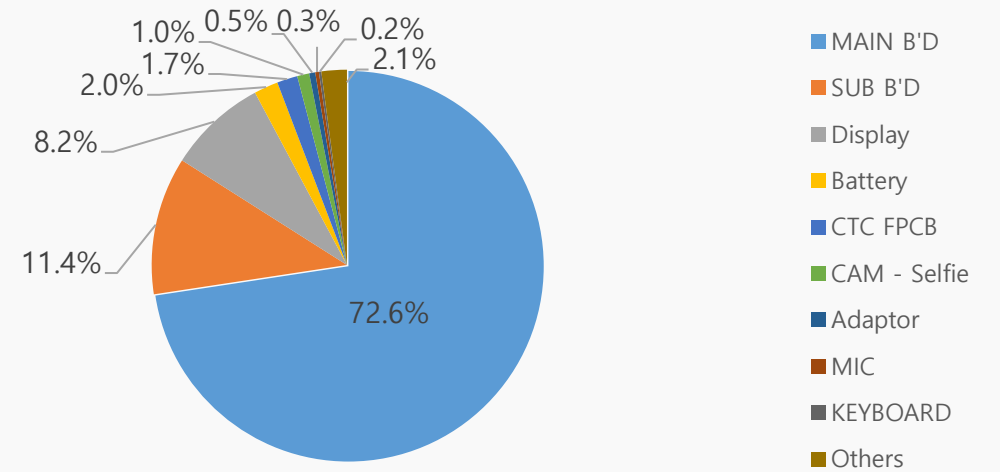
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KR
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

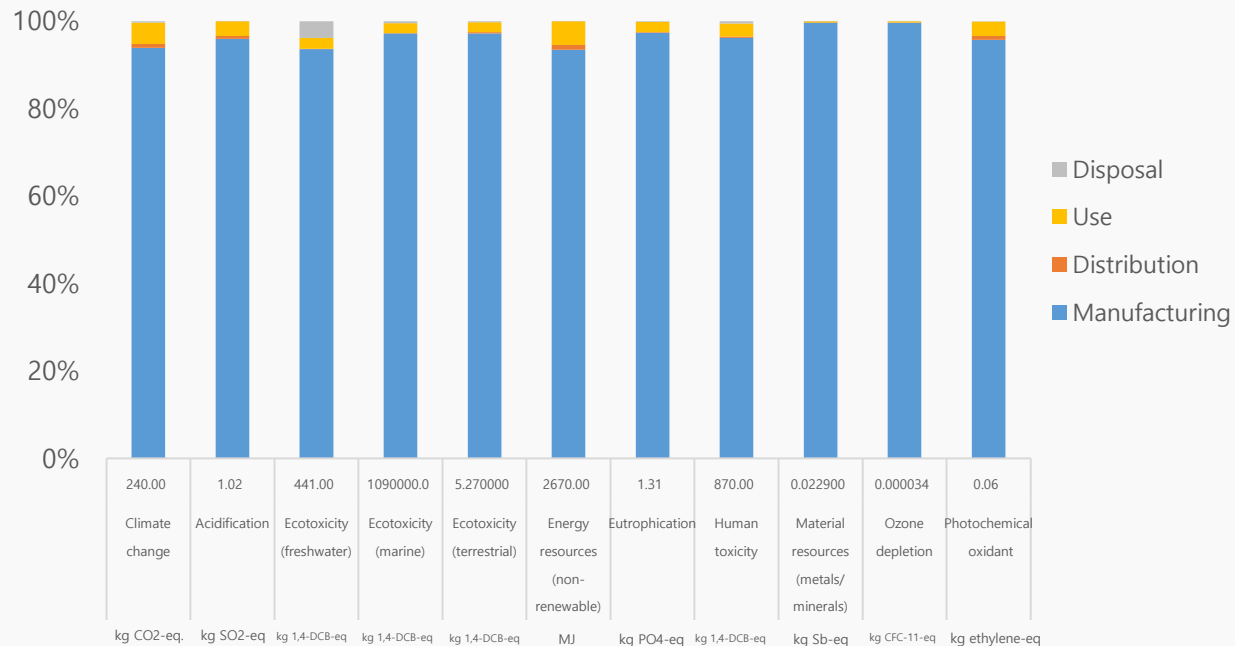


Model name	<b>NT965XHD (Galaxy Book5 Pro16)</b>	
Dimension (mm)	<b>355.4 x 250.4 x 12.5</b>	
Display (mm)	<b>406.4</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1758.52</b>
	<b>Packages</b>	<b>1027.16</b>

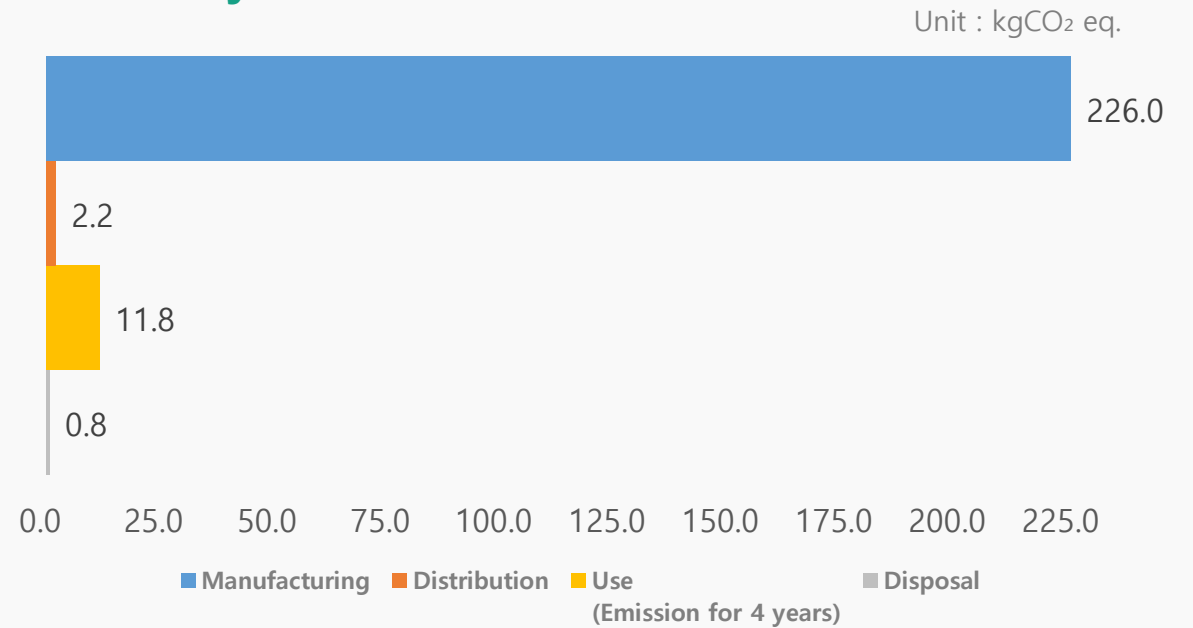
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 360 15(US)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

SDP\* : Sustainability Data Platform

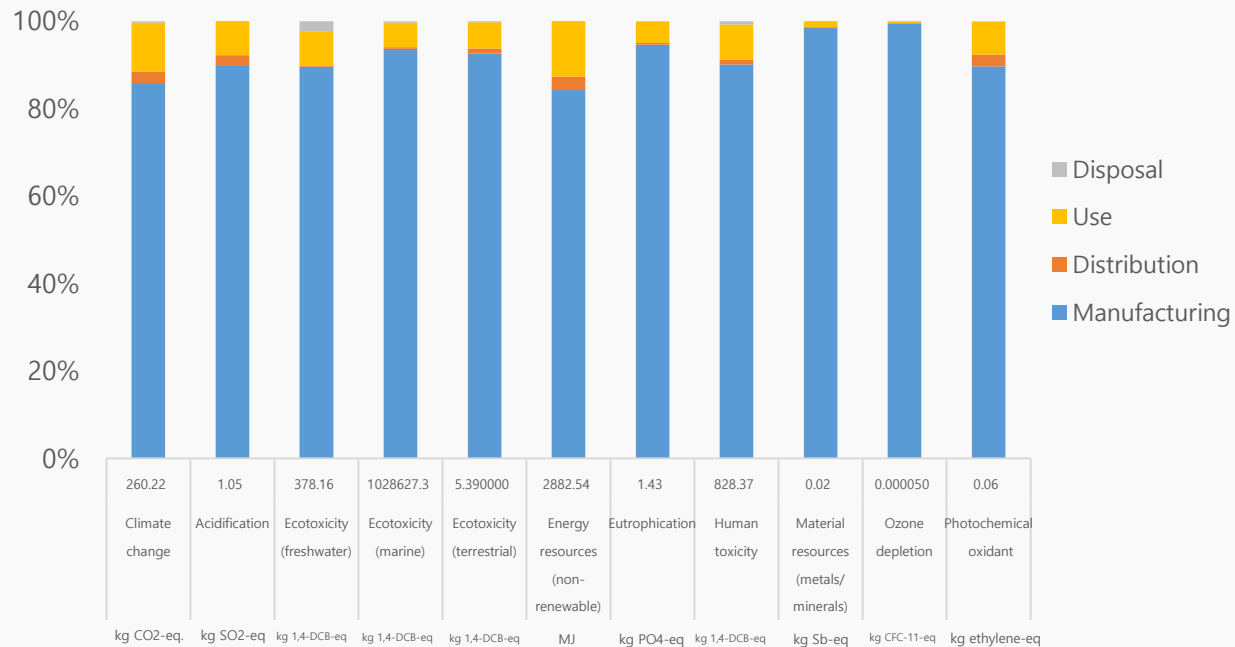
BOM\*\* : Bill of Material

## ● Product Features

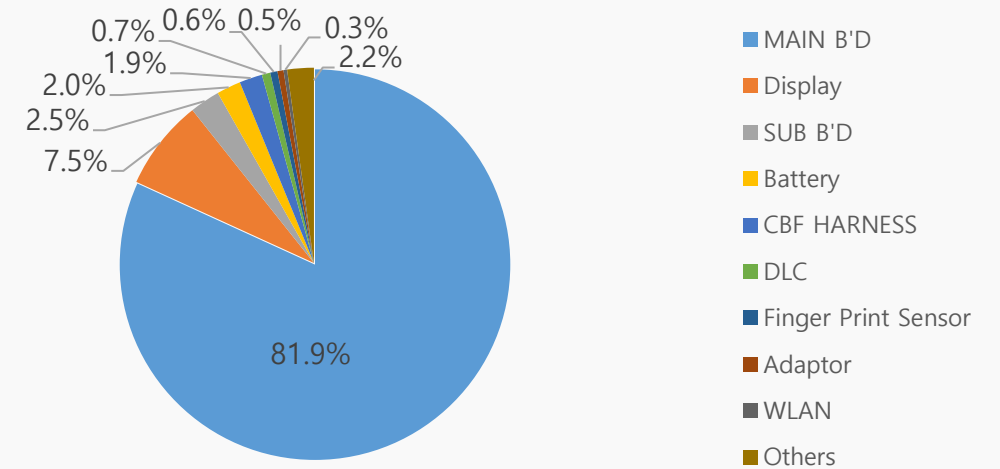


Model name	<b>NP750QHA (Galaxy Book5 360 15")</b>	
Dimension (mm)	<b>355.4 x 228.0 x 13.7</b>	
Display (mm)	<b>396.2</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1,691.55</b>
	<b>Packages</b>	<b>667.22</b>

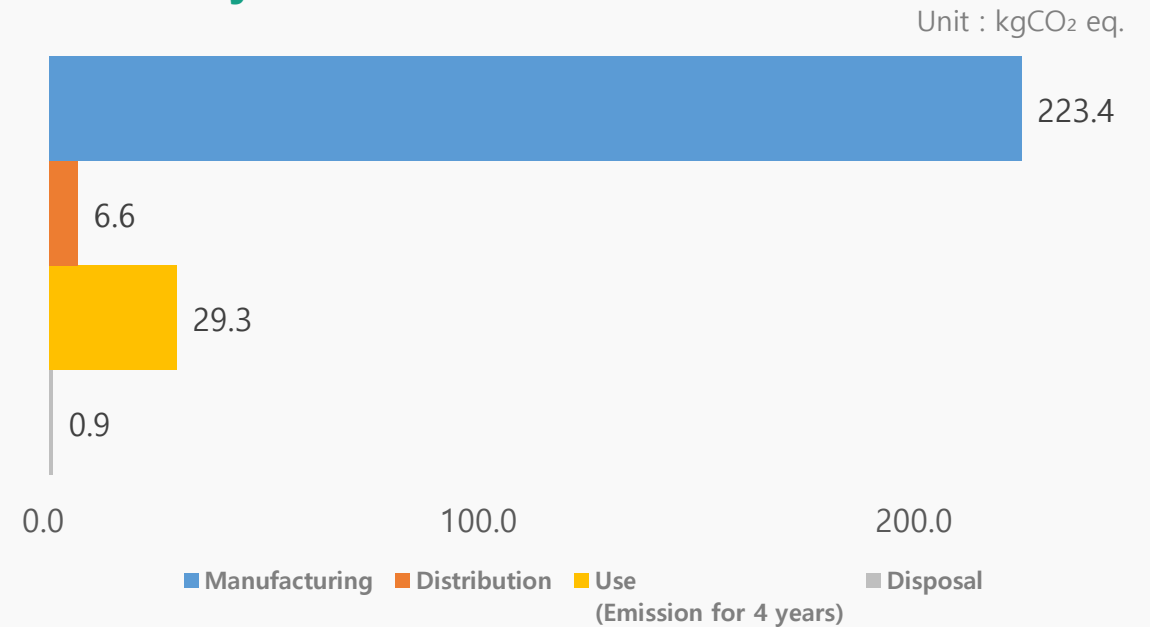
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 16(UK)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

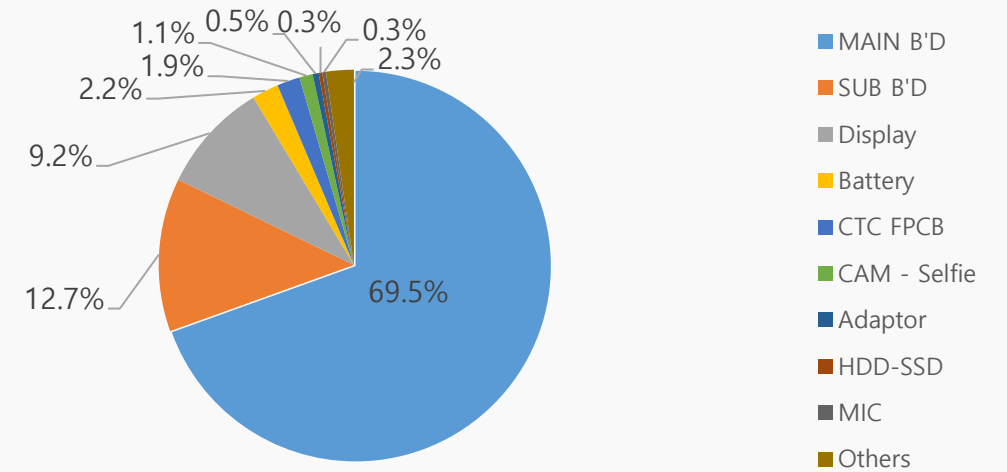
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UK
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

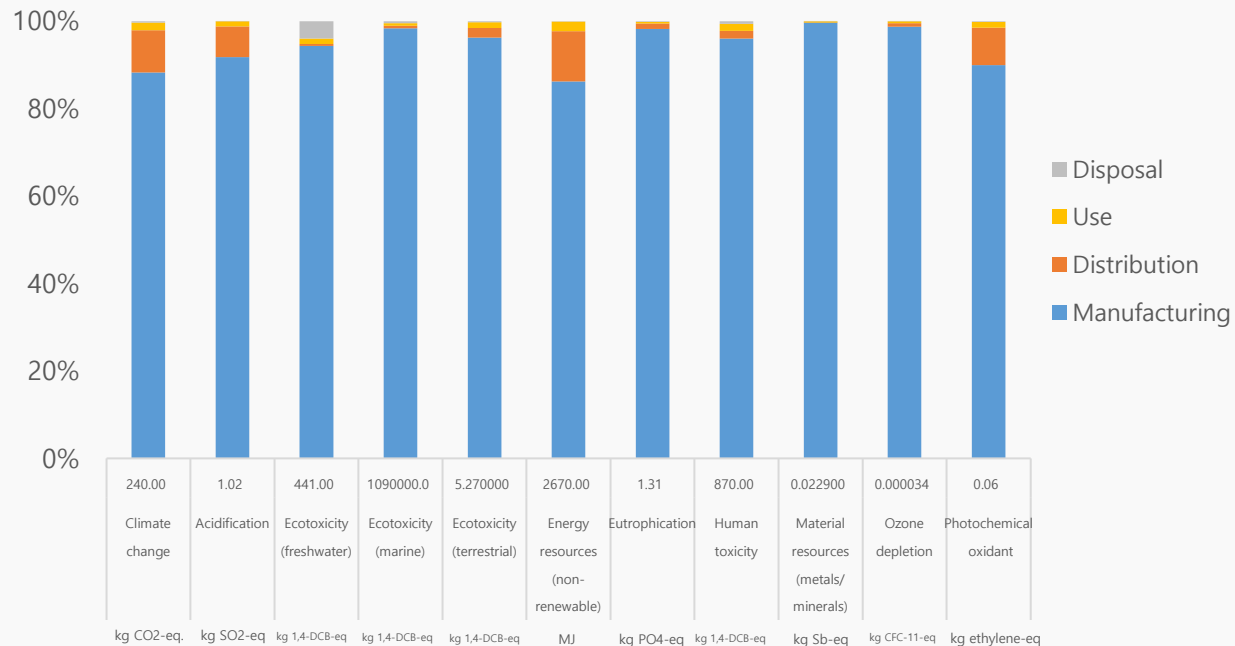


Model name	<b>NP960XHA (Galaxy Book5 Pro16)</b>	
Dimension (mm)	<b>355.4 x 250.4 x 12.5</b>	
Display (mm)	<b>406.4</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1752.97</b>
	<b>Packages</b>	<b>1032.08</b>

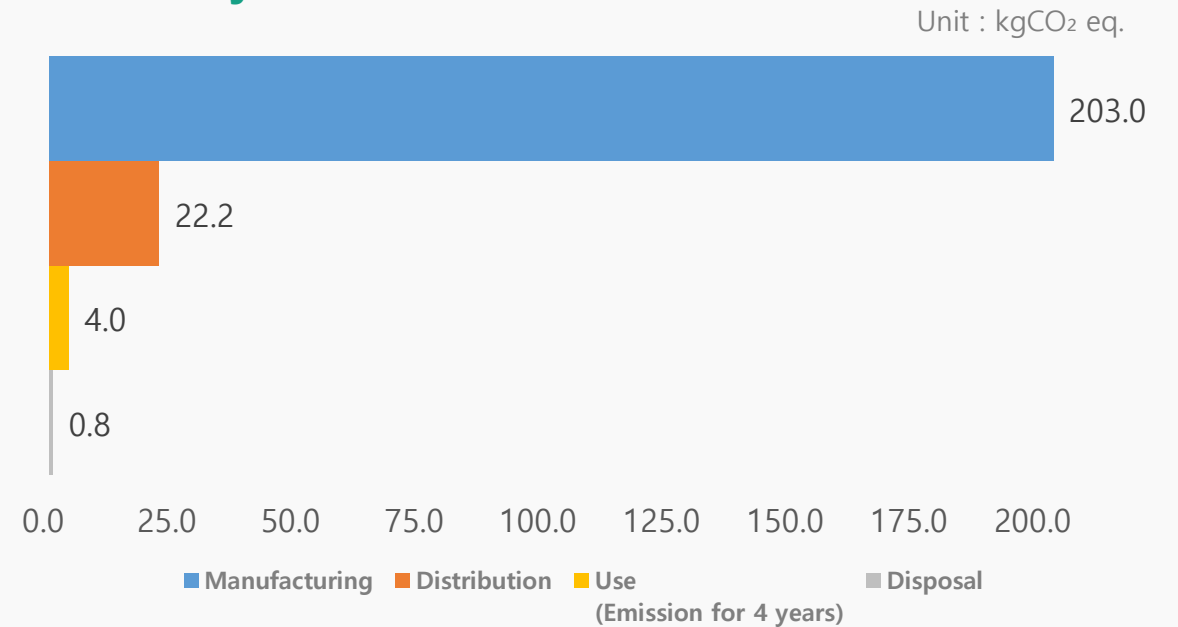
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 16(US)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

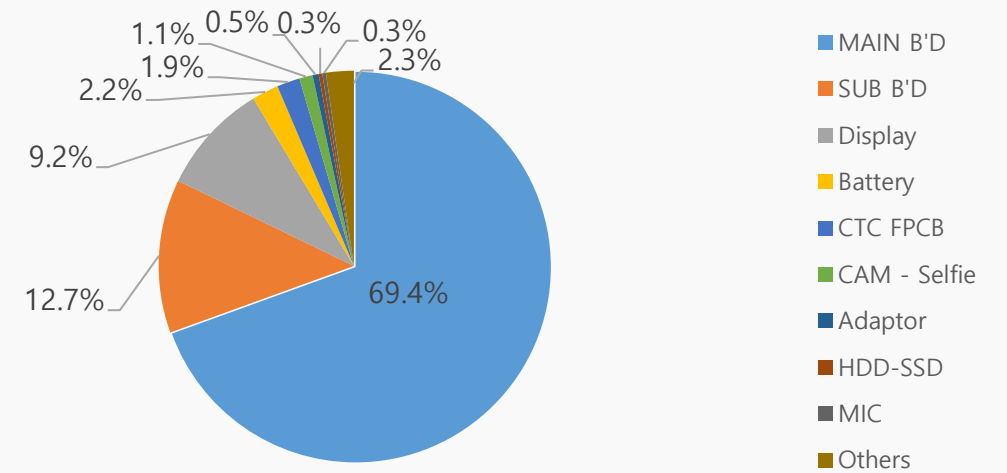
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

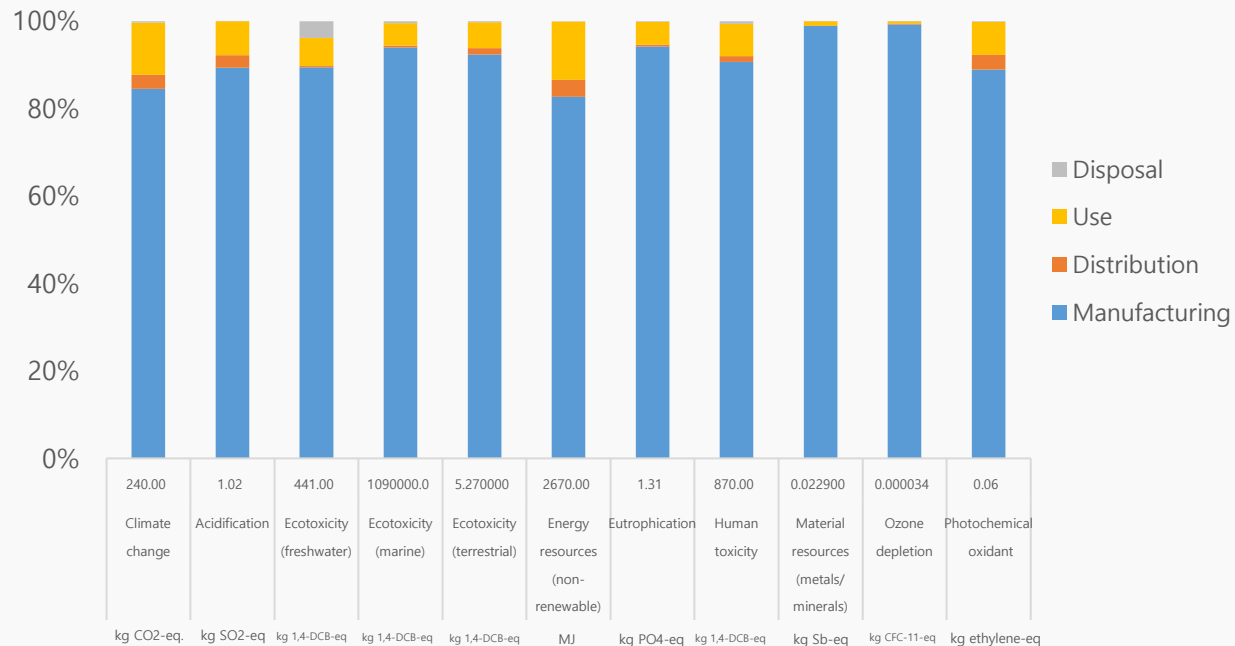


Model name	<b>NP960XHA (Galaxy Book5 Pro16)</b>	
Dimension (mm)	<b>355.4 x 250.4 x 12.5</b>	
Display (mm)	<b>406.4</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1754.05</b>
	<b>Packages</b>	<b>1032.07</b>

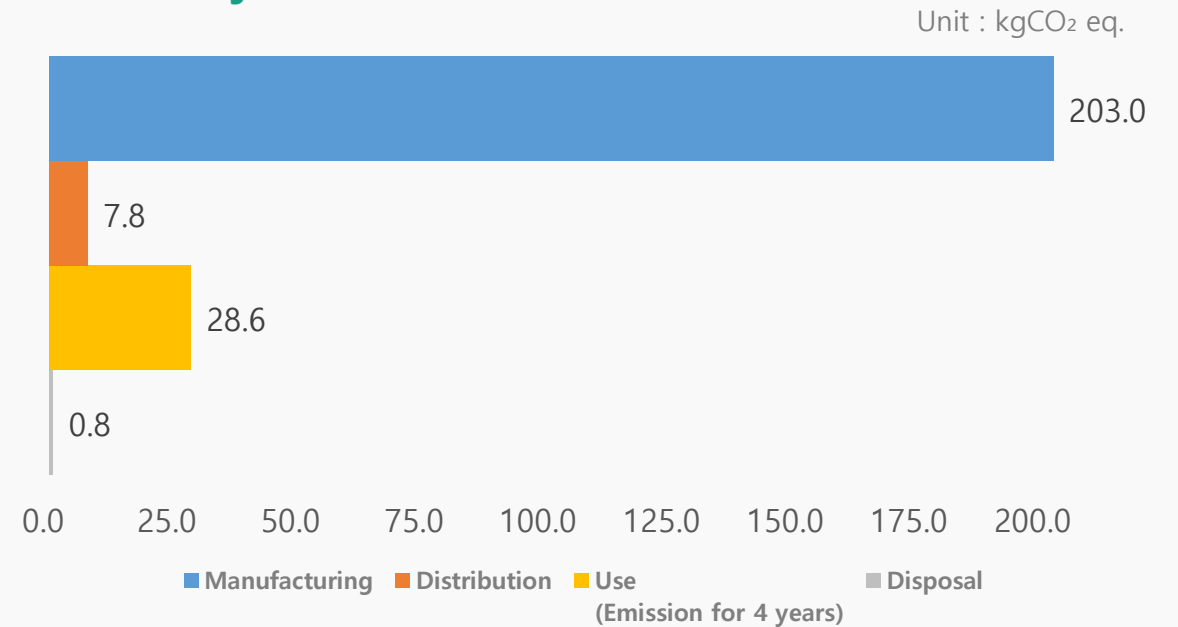
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 14(UK)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

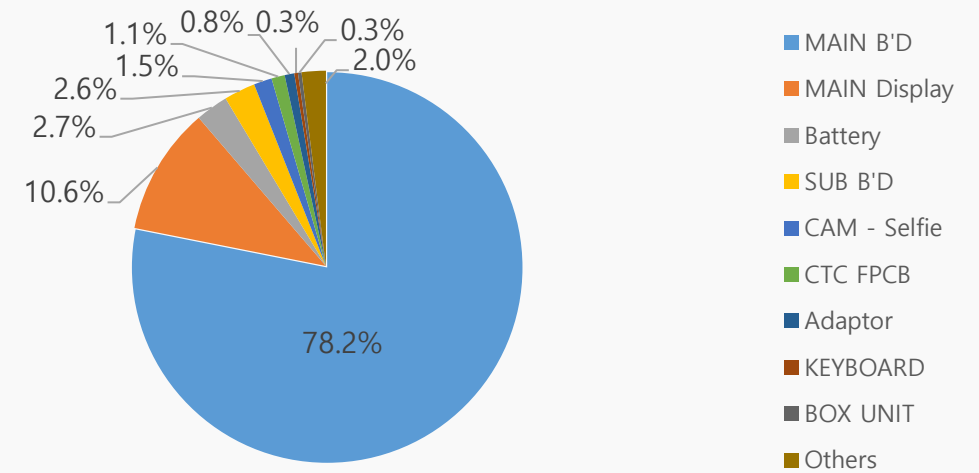
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UK
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

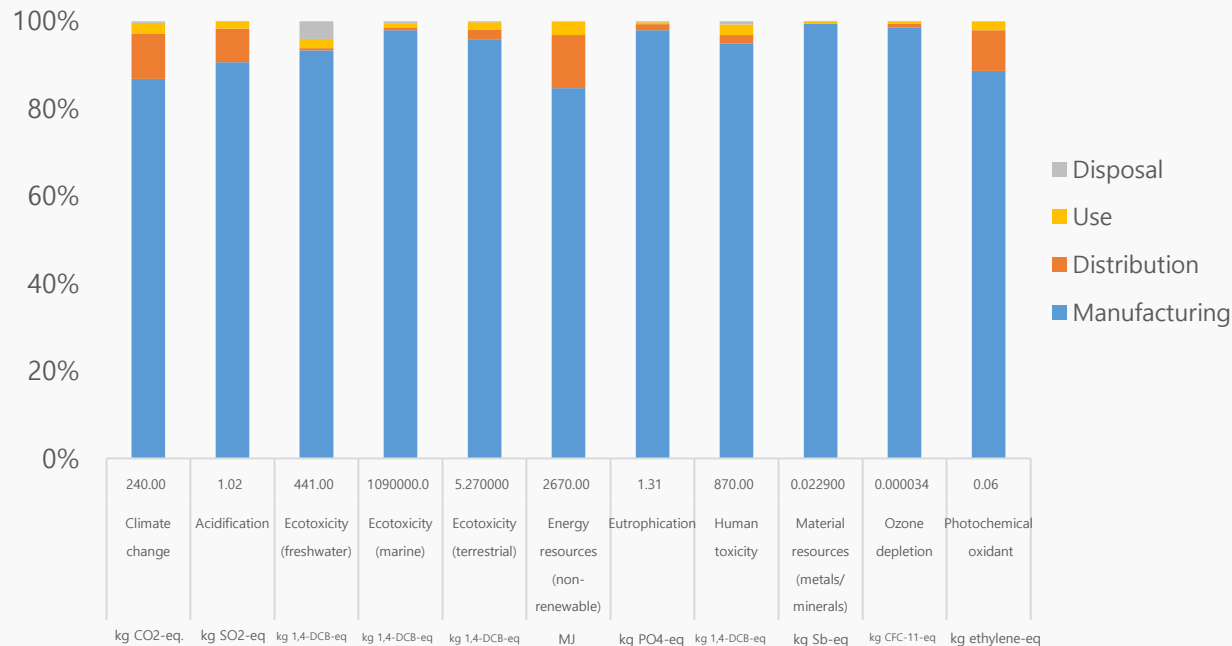


Model name	<b>NT940XHA (Galaxy Book5 Pro14)</b>	
Dimension (mm)	<b>312.3 x 223.8 x 11.6</b>	
Display (mm)	<b>355.6</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1415.16</b>
	<b>Packages</b>	<b>857.58</b>

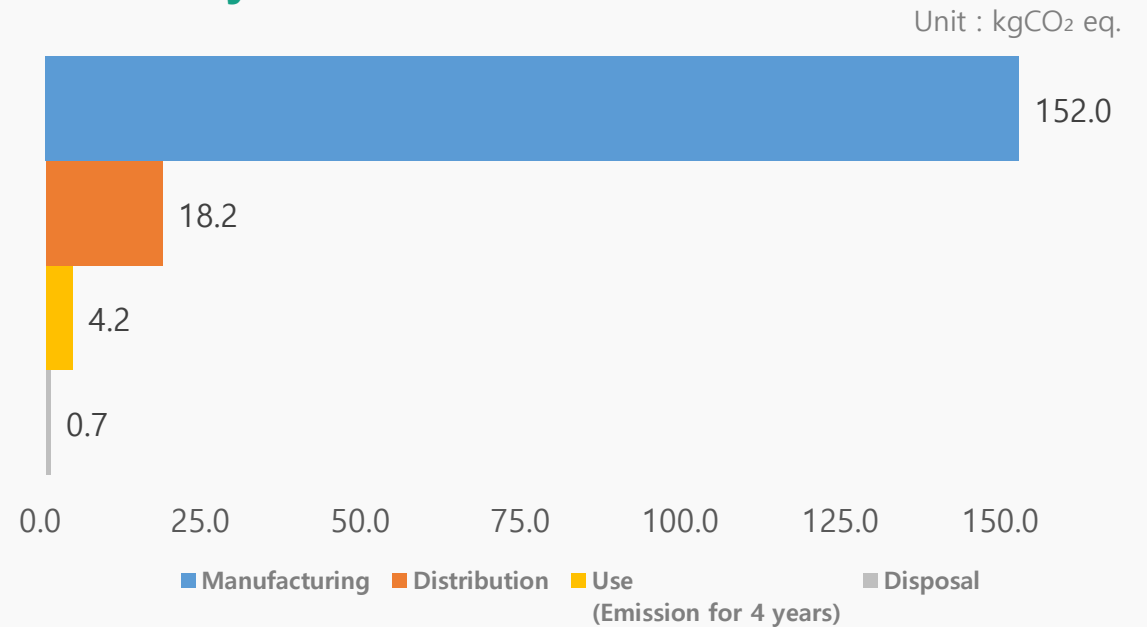
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 14(US)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

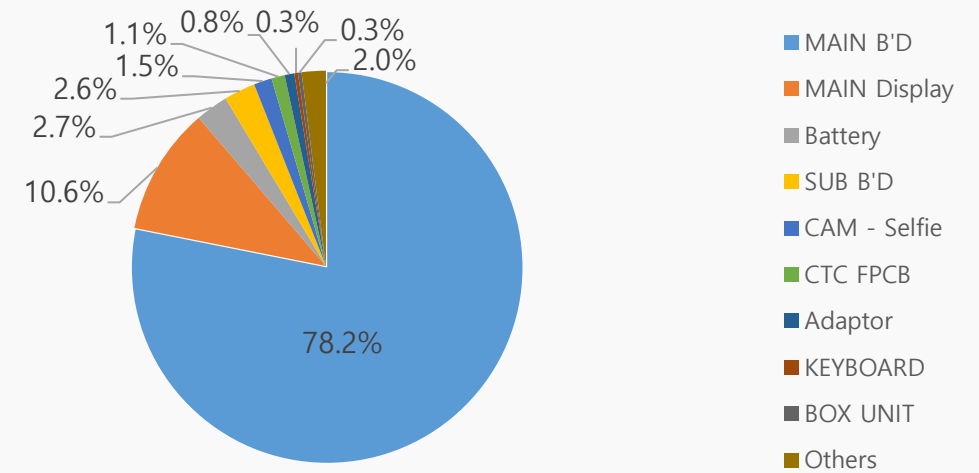
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

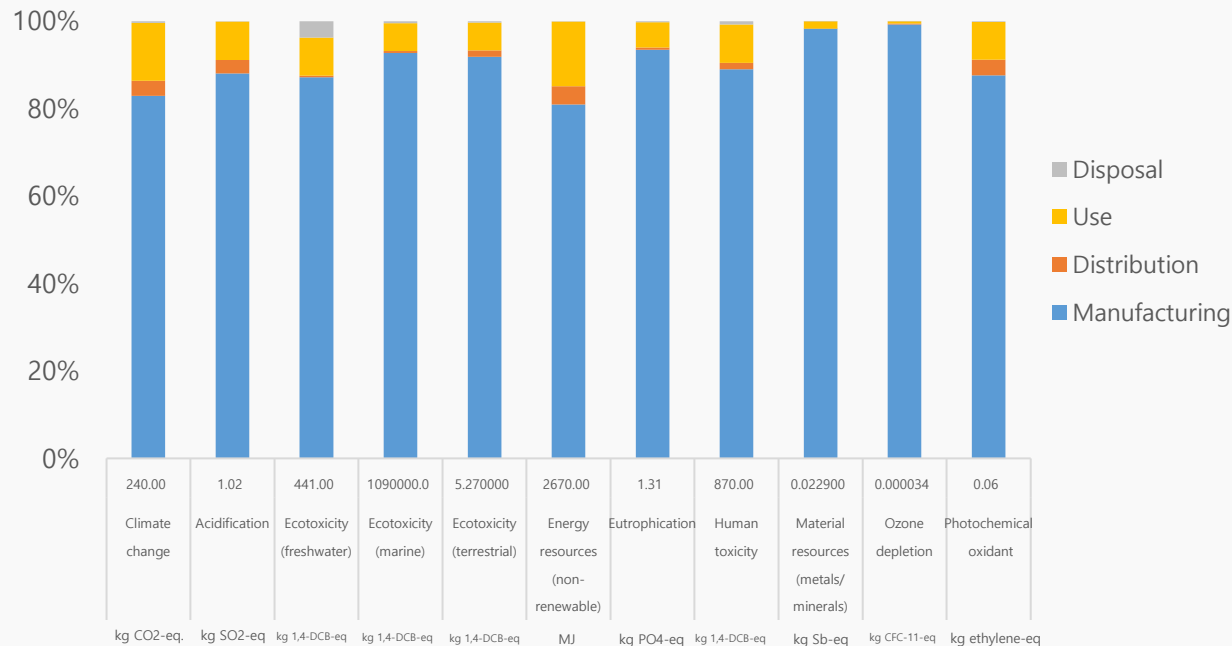


Model name	<b>NT940XHA (Galaxy Book5 Pro14)</b>	
Dimension (mm)	<b>312.3 x 223.8 x 11.6</b>	
Display (mm)	<b>355.6</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1408.45</b>
	<b>Packages</b>	<b>856.46</b>

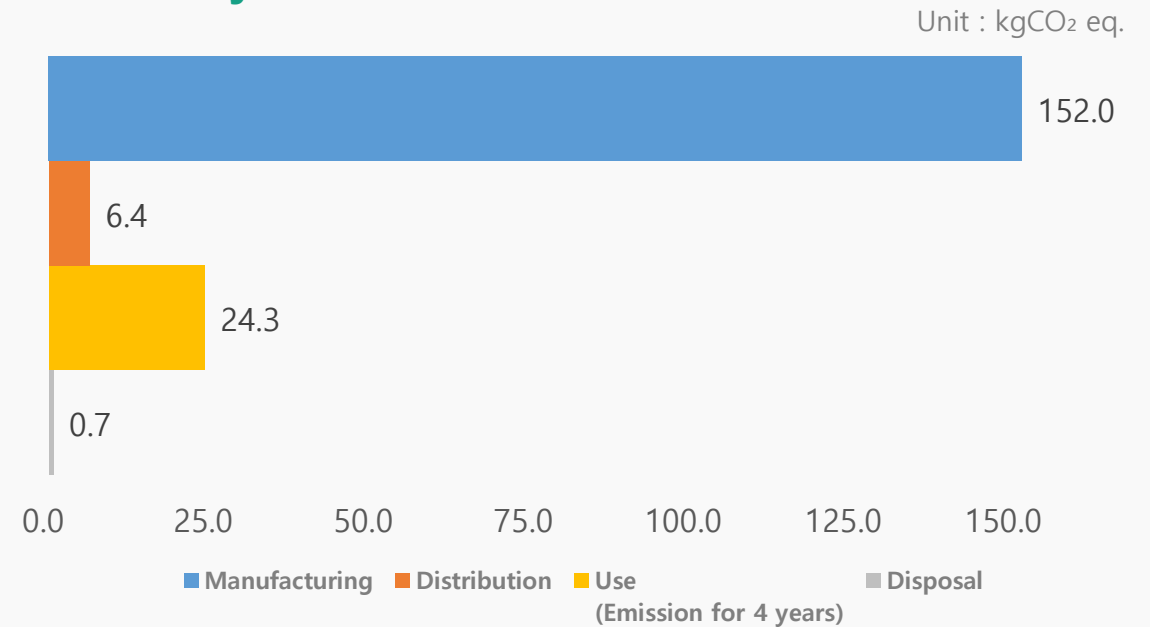
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Chromebook+

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

SDP\* : Sustainability Data Platform

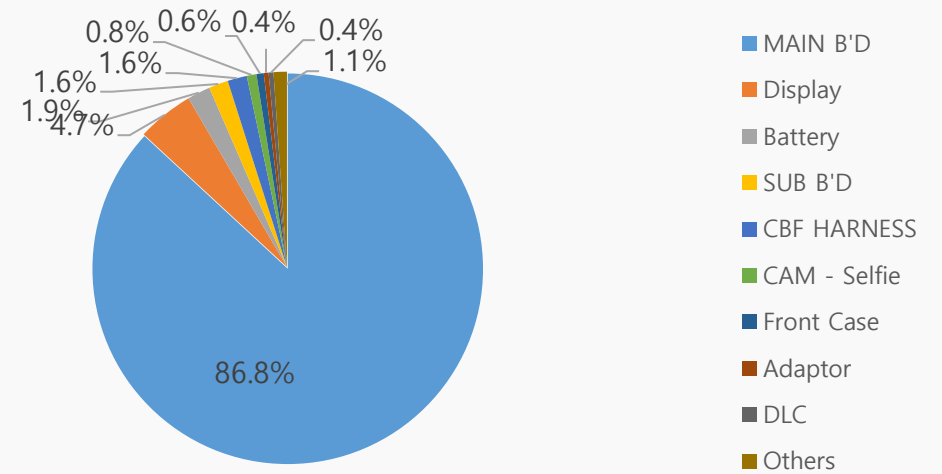
BOM\*\* : Bill of Material

## ● Product Features

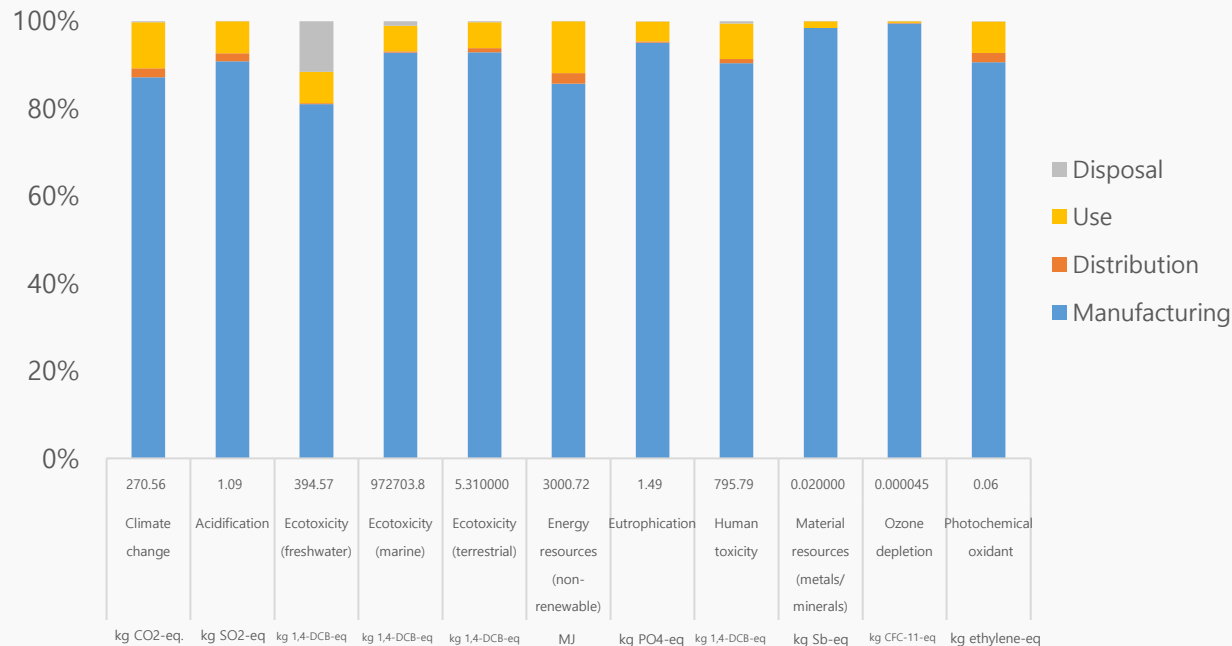


Model name	<b>XE550XGA (Galaxy Chromebook+)</b>	
Dimension (mm)	<b>225.8 x 355.4 x 11.8</b>	
Display (mm)	<b>396.2</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1,305.30</b>
	<b>Packages</b>	<b>639.38</b>

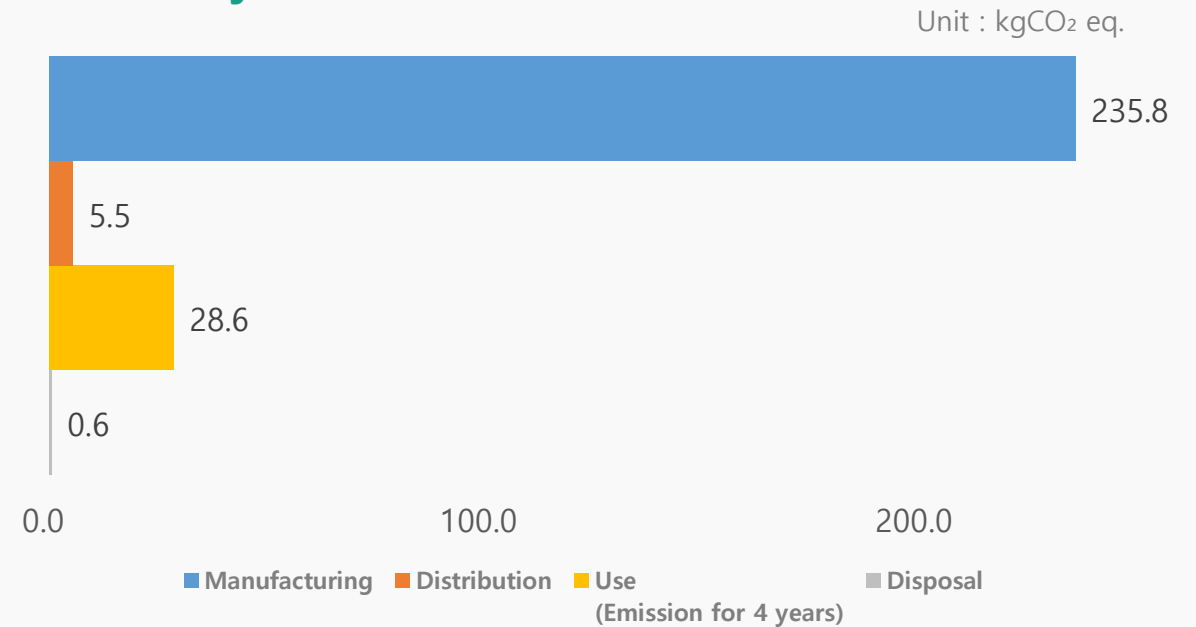
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book5 Pro 360(UK)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

SDP\* : Sustainability Data Platform

BOM\*\* : Bill of Material

## ● System boundary of LCA

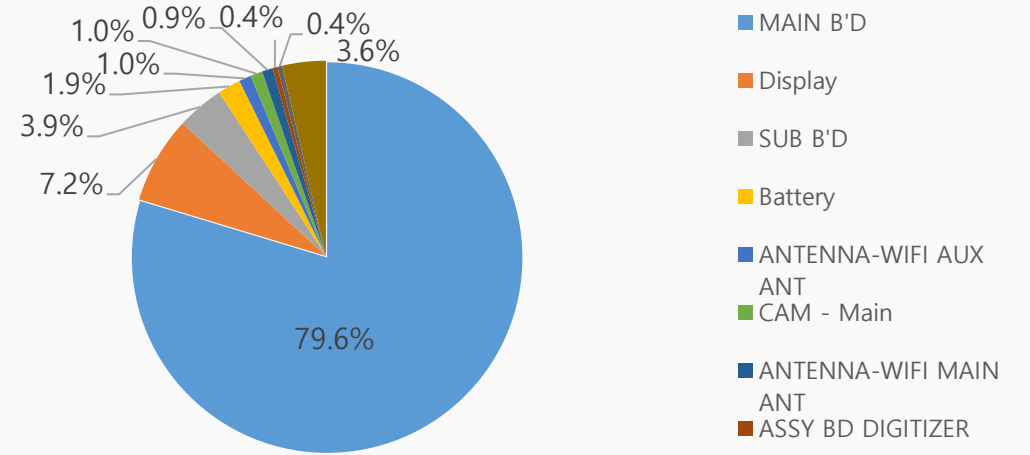
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

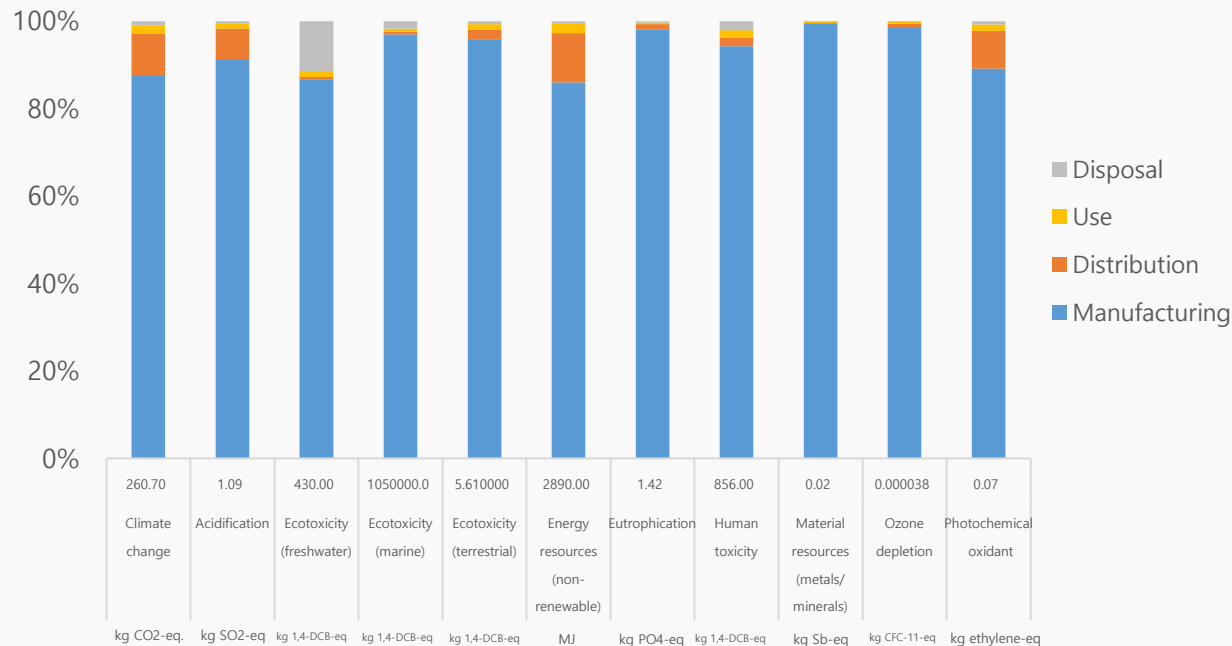


Model name	<b>NP960QHA (Galaxy Book5 Pro 360)</b>	
Dimension (mm)	<b>355.4 x 252.2 x 12.8</b>	
Display (mm)	<b>400.6</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1,841.68</b>
	<b>Packages</b>	<b>1,327.77</b>

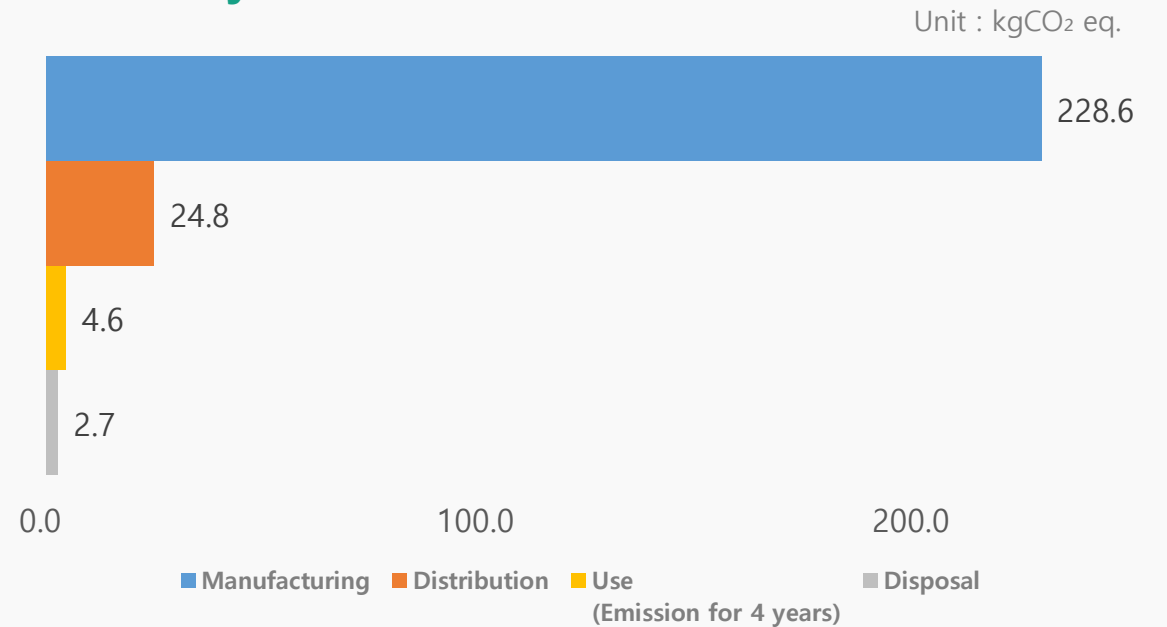
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Edge (US)

## ● Background

Samsung has developed the technical expertise to analyze and evaluate the environmental impact of its products. Based on international standards such as ISO14040 and ISO14044, Samsung has implemented the SDP\*. This evaluation considers the entire product lifecycle, including manufacturing, distribution, usage, and disposal. The SDP analyzes various data categories, including the materials and weight of product BOM\*\*, inputs/outputs in manufacturing processes, distribution routes, energy consumption during product usage, and disposal scenarios to precisely measure environmental impacts.

The LCA results identified and quantified 11 environmental impact categories, including climate change, acidification, ecotoxicity, and ozone depletion. Each category was evaluated for every lifecycle stage. These results will be utilized to improve product environmental specifications and inform product development.

This verification includes implementation methods, related procedures, and requirements for LCA, but does not ensure the reliability of the data used for the product model or the resulting outcomes. Considering these uncertainties, this report will be continuously updated and improved.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML v4.8 (Climate Change:IPCC)
LCA software	SDP(Sustainability Data Platform)

## ● System boundary of LCA

Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

SDP\* : Sustainability Data Platform

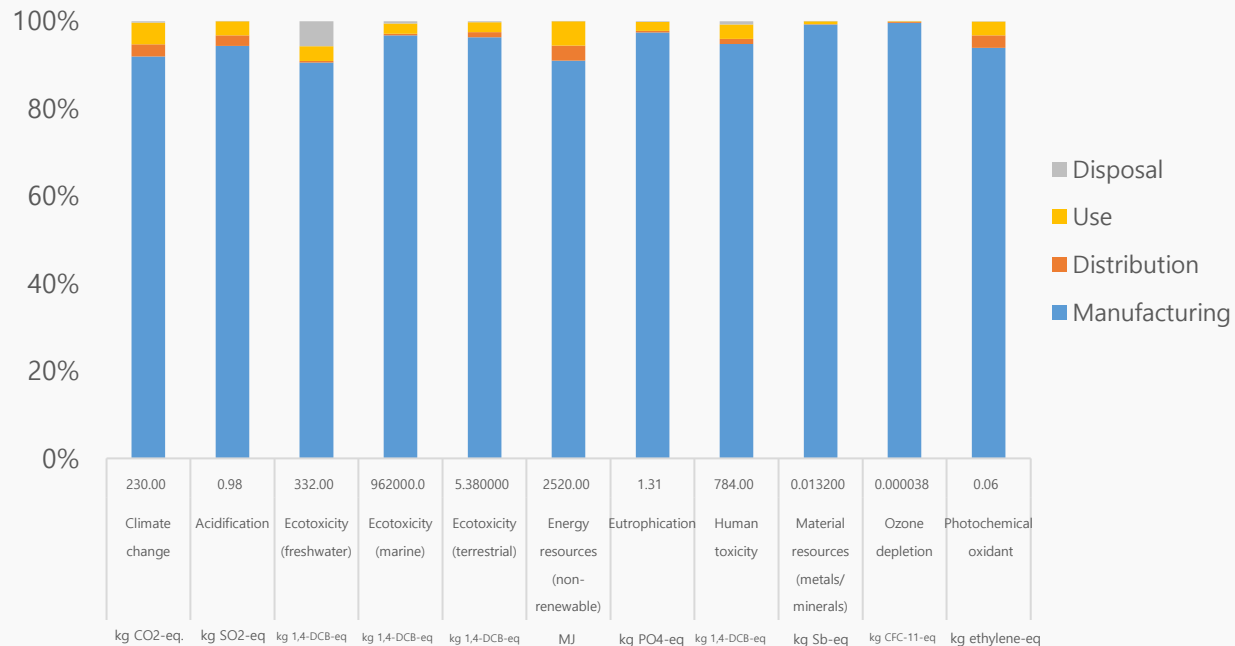
BOM\*\* : Bill of Material

## ● Product Features

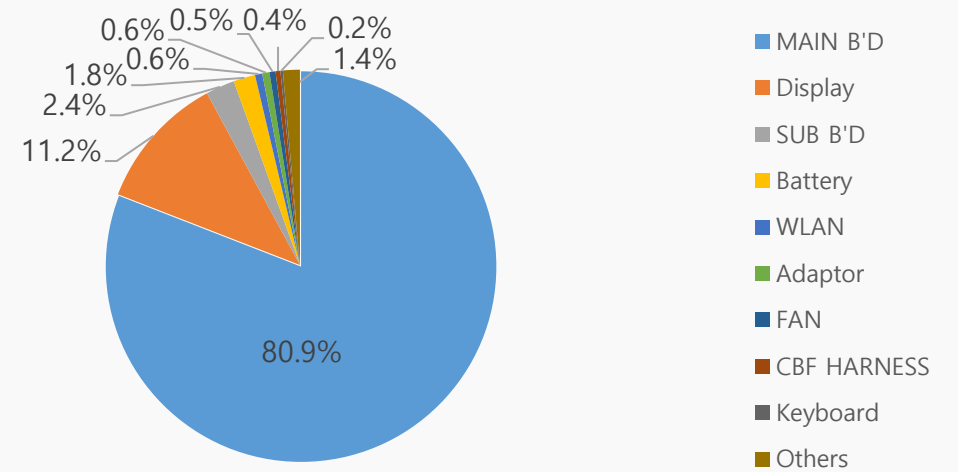


Model name	<b>NP750XQA (Galaxy Book4 Edge)</b>	
Dimension (mm)	<b>356.6 x 229.75 x 15.0</b>	
Display (mm)	<b>396.24</b>	
Weight (g)	<b>Product &amp; Acc.</b>	<b>1,668.56</b>
	<b>Packages</b>	<b>654.24</b>

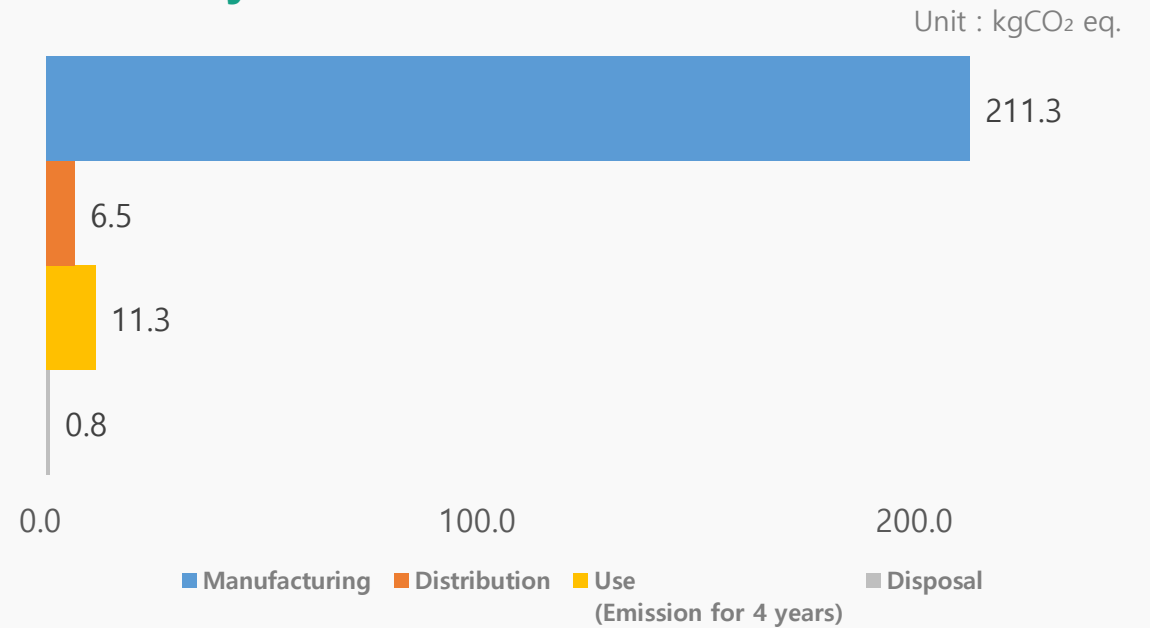
## ● Characterized Environment Impact



## ● Global Warming Impact Profile



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Edge 16"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

## ● System boundary of LCA

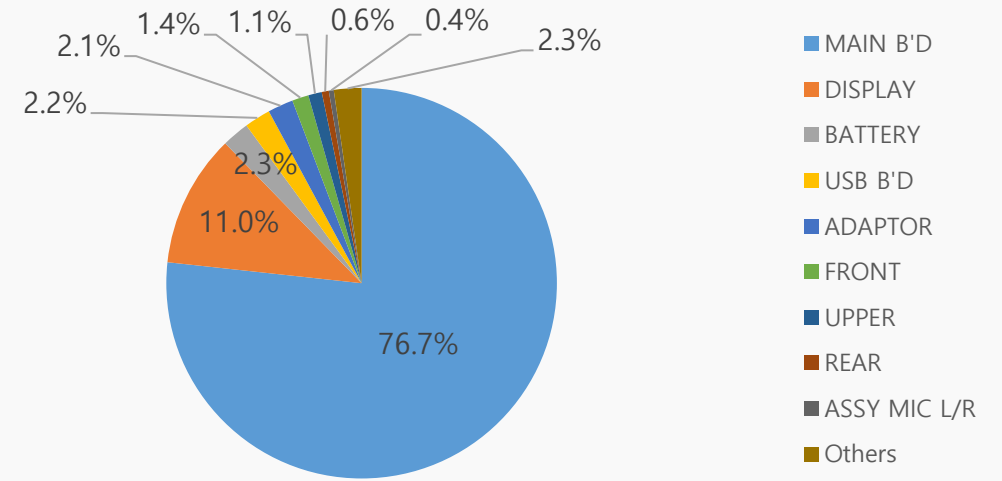
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

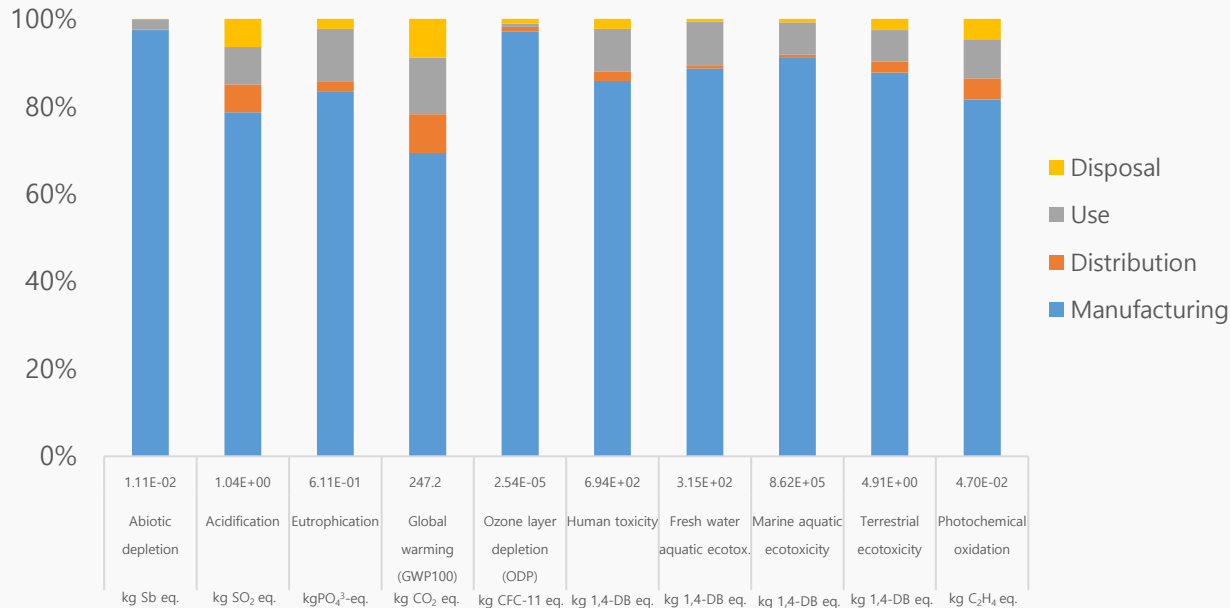


<b>Model name</b>	NP960XMA
<b>Dimension</b>	355.4 x 250.4 x 12.3 mm
<b>Display</b>	16" AMOLED
<b>Weight</b>	Product&Acc. : 1709.91 g Packages : 897.04 g
<b>Energy consumption</b>	17.55 kWh / year

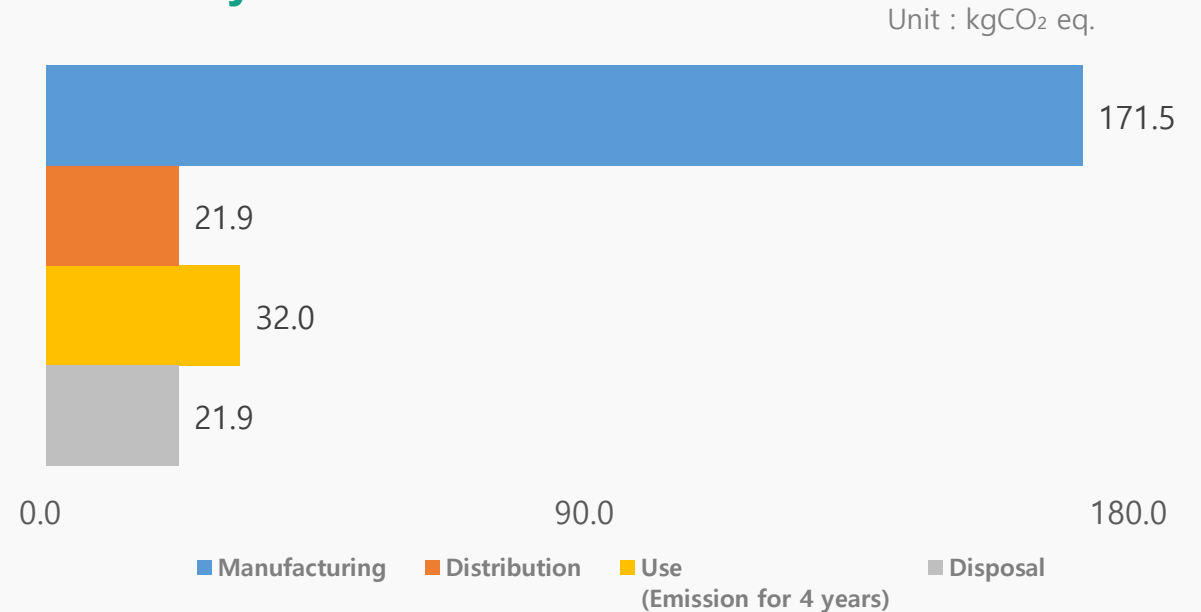
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Edge 14"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

## ● System boundary of LCA

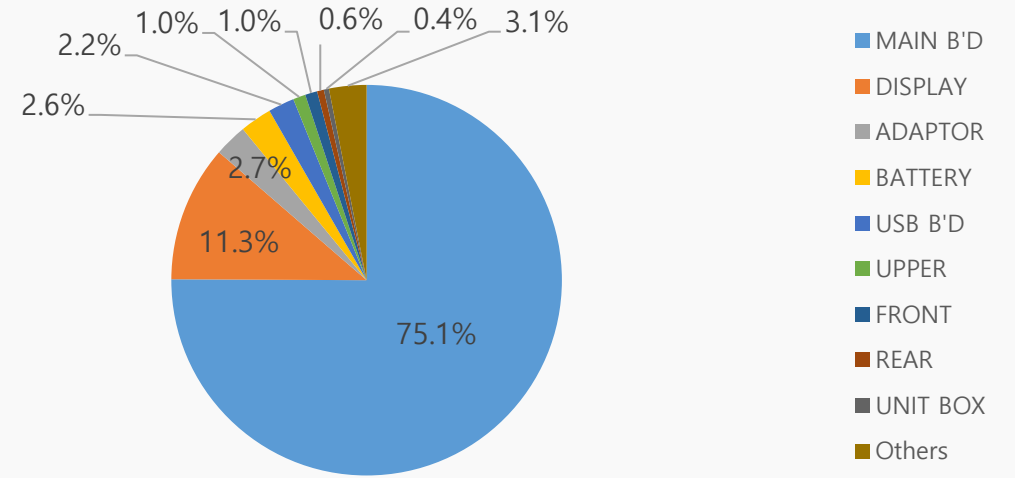
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

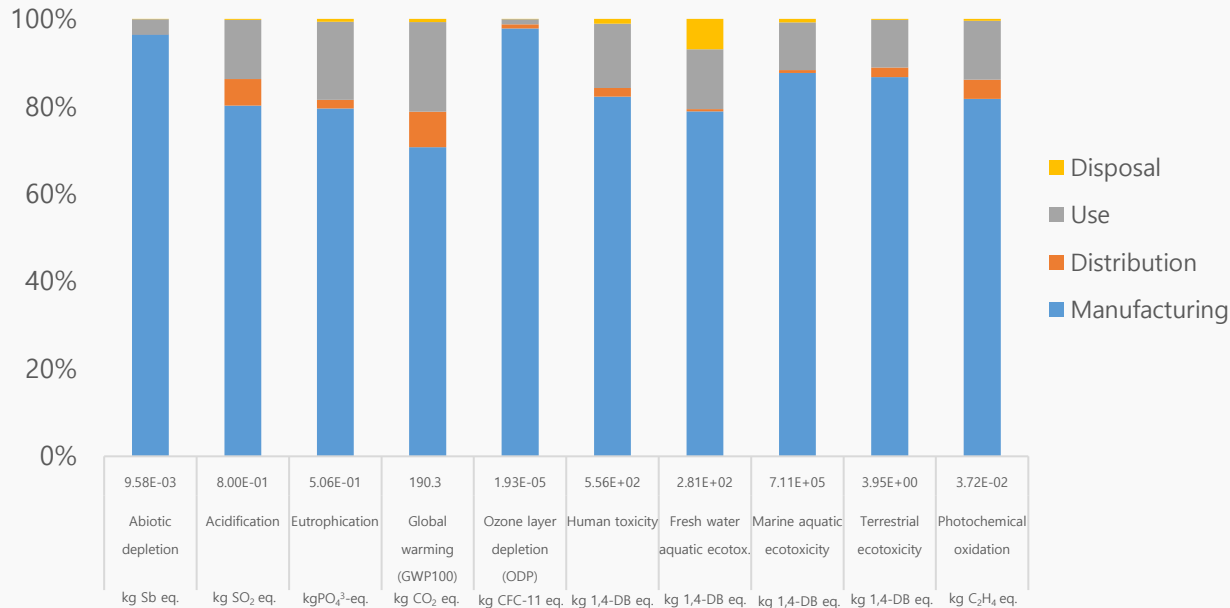


<b>Model name</b>	NP940XMA
<b>Dimension</b>	312.3 x 223.8 x 10.9 mm
<b>Display</b>	14" AMOLED
<b>Weight</b>	Product&Acc. : 1322.77 g Packages : 825.45 g
<b>Energy consumption</b>	16.45 kWh / year

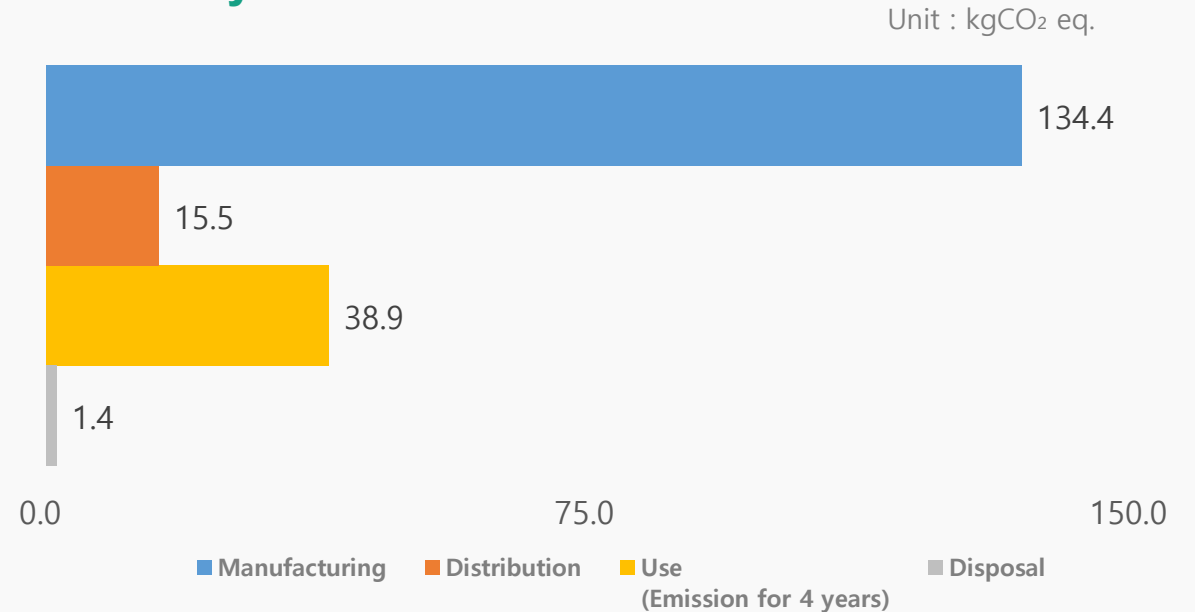
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 360

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## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## ● System boundary of LCA

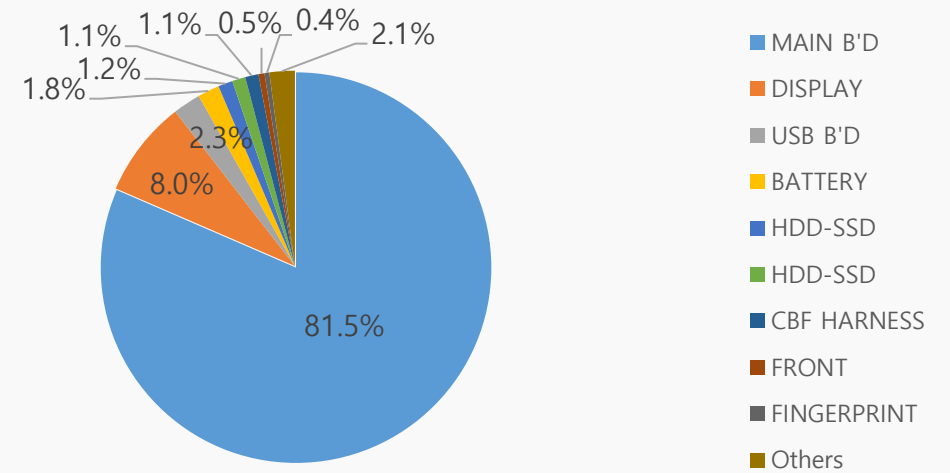
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

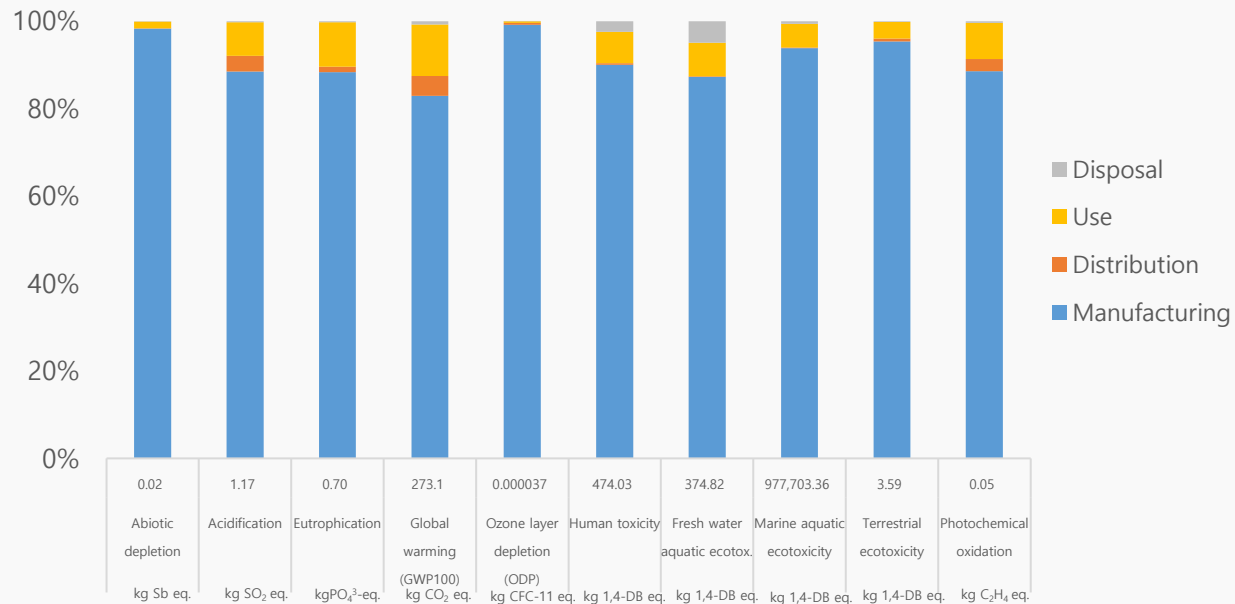


<b>Model name</b>	NP750QGK
<b>Dimension</b>	355.4 x 228.0 x 13.7 mm
<b>Display</b>	15.6" AMOLED
<b>Weight</b>	Product & Acc. : 1624.17g Packages : 666.42g
<b>Energy consumption</b>	16.73 kWh / year

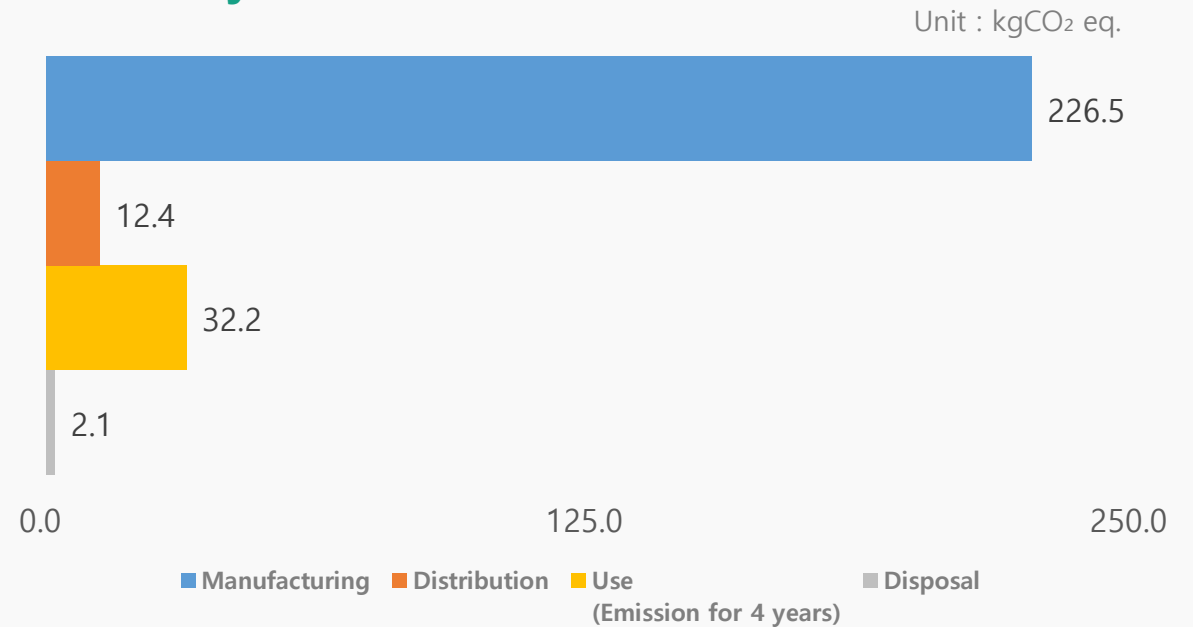
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Pro 14"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## ● System boundary of LCA

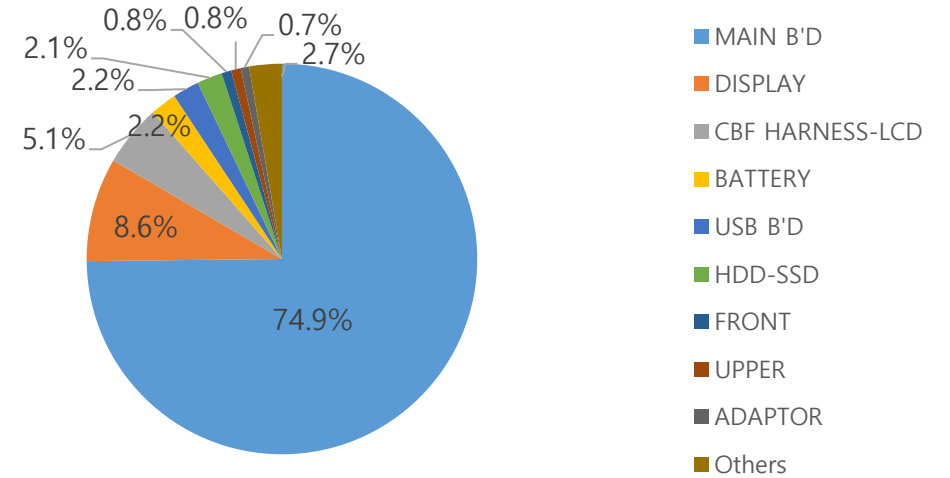
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

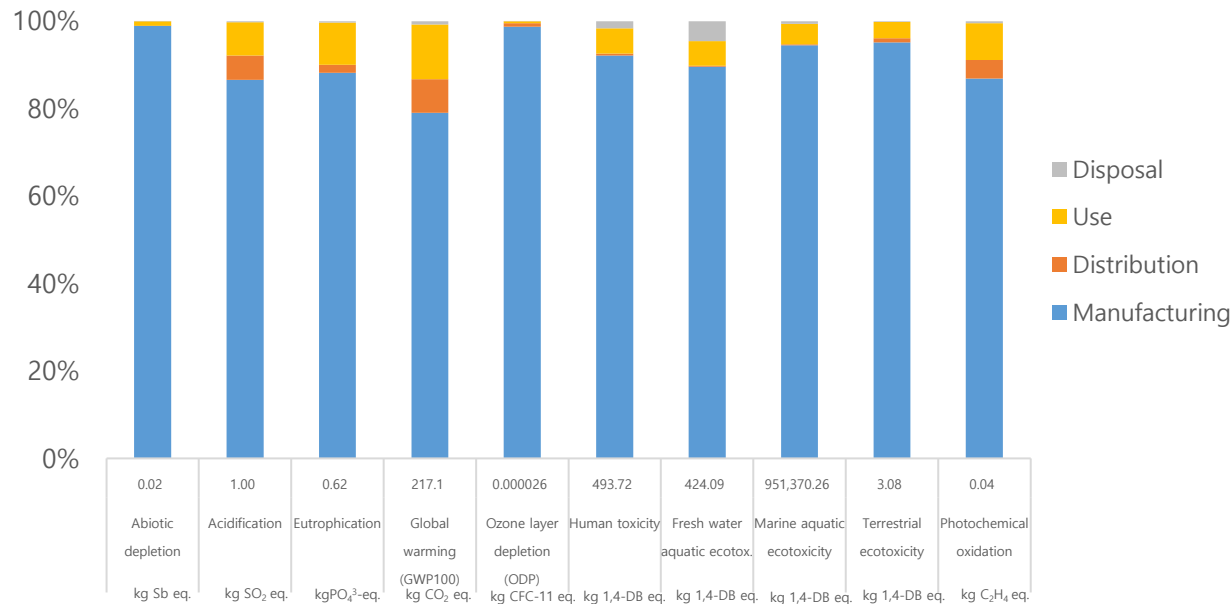


<b>Model name</b>	NP940XGK
<b>Dimension</b>	312.3 x 223.8 x 11.6 mm
<b>Display</b>	14.0" AMOLED
<b>Weight</b>	Product & Acc. : 1402.92g Packages : 801.59g
<b>Energy consumption</b>	14.14 kWh / year

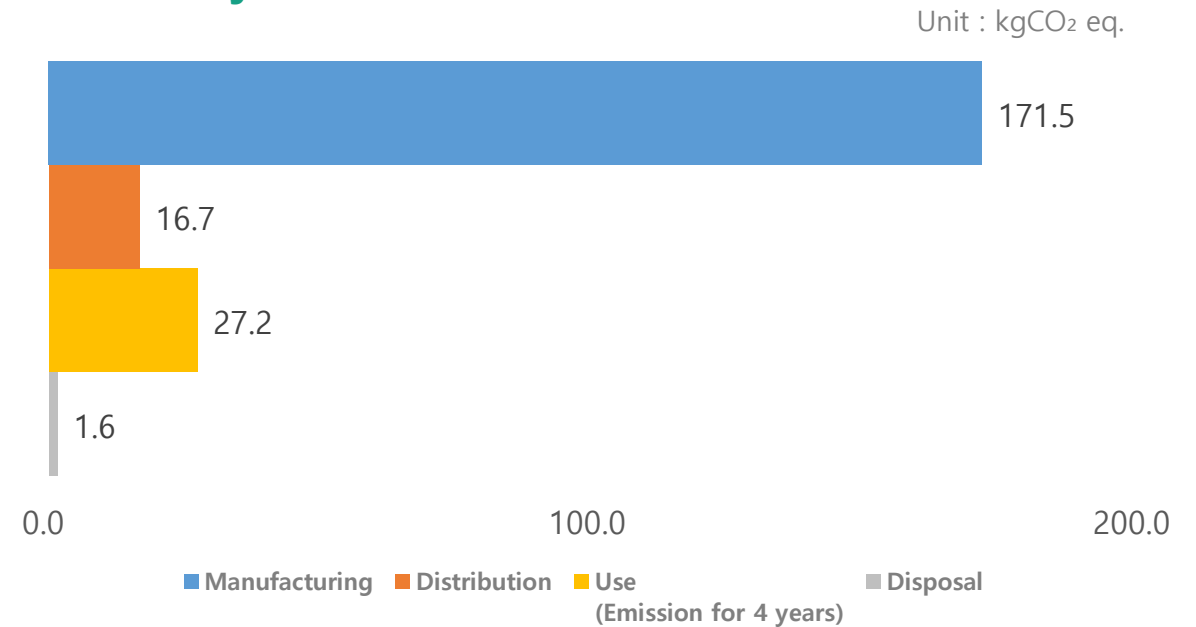
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Pro 16"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## ● System boundary of LCA

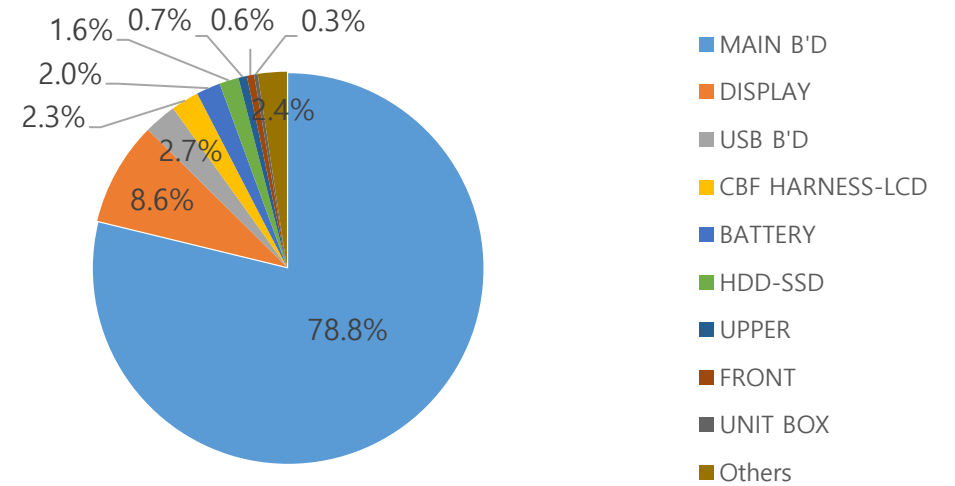
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

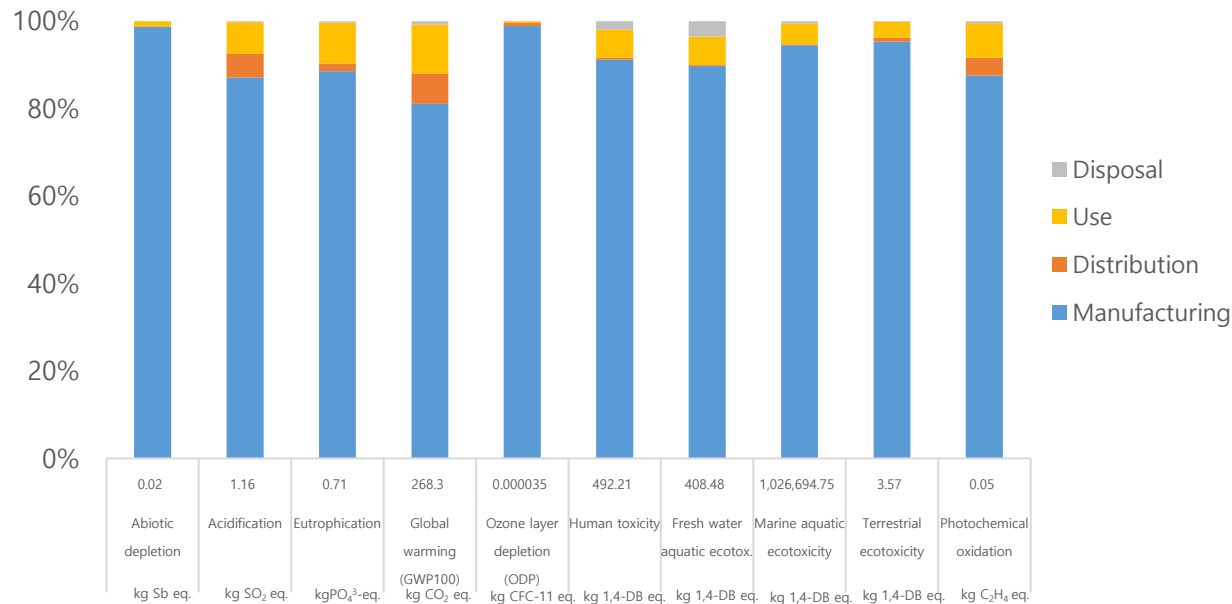


<b>Model name</b>	NP960XGK
<b>Dimension</b>	355.4 x 250.4 x 12.5 mm
<b>Display</b>	16.0" AMOLED
<b>Weight</b>	Product & Acc. : 1723.70g Packages : 1086.63g
<b>Energy consumption</b>	15.63 kWh / year

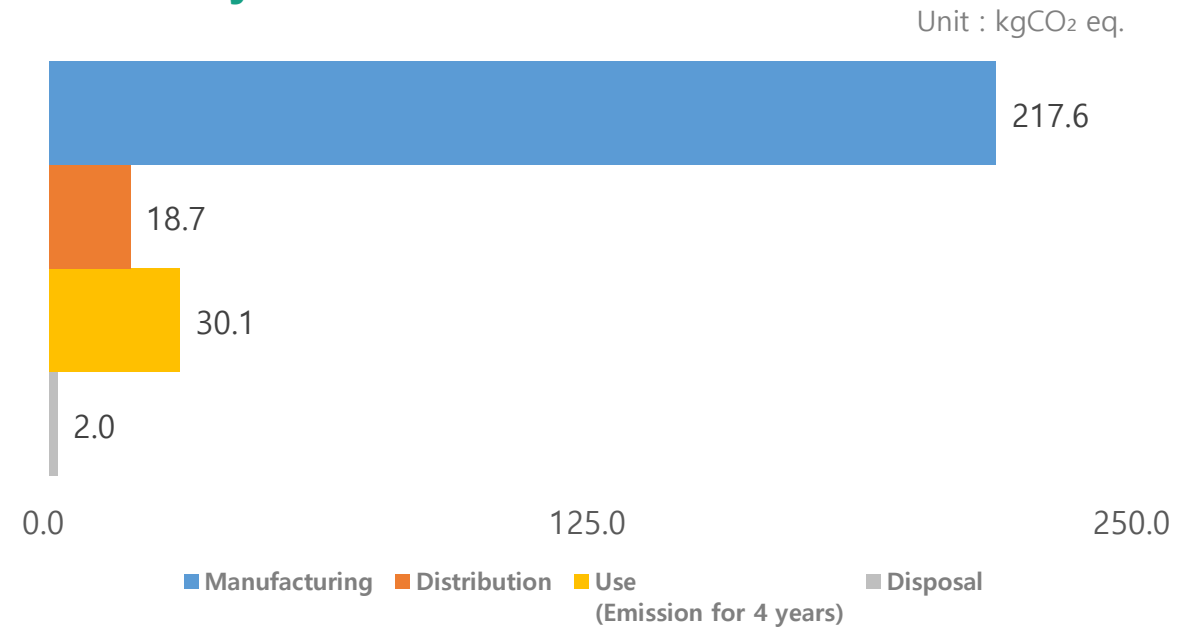
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Ultra

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## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## ● System boundary of LCA

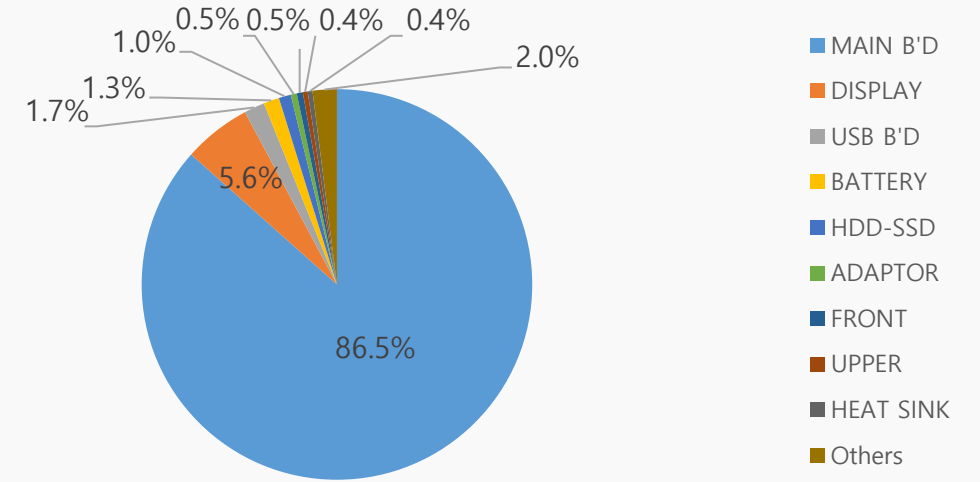
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

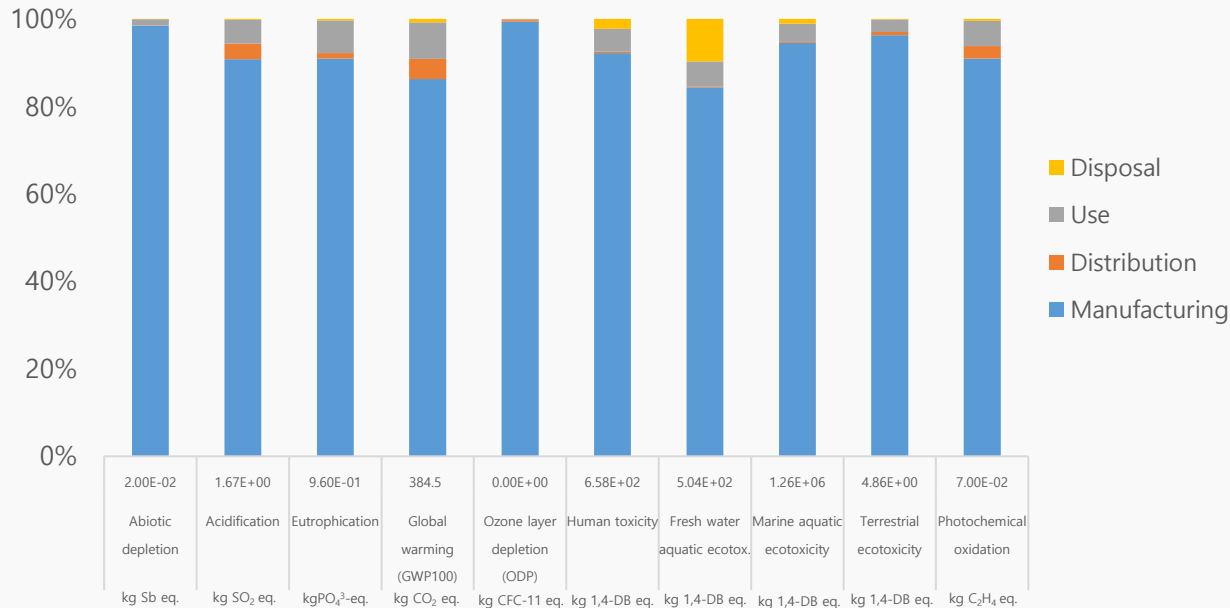


<b>Model name</b>	NP960XGL
<b>Dimension</b>	355.40 x 250.45 x 16.5 mm
<b>Display</b>	16" WQXGA+, AMOLED
<b>Weight</b>	Product & Acc. : 2194.43g Packages : 1,771.70g
<b>Energy consumption</b>	16.74 kWh / year

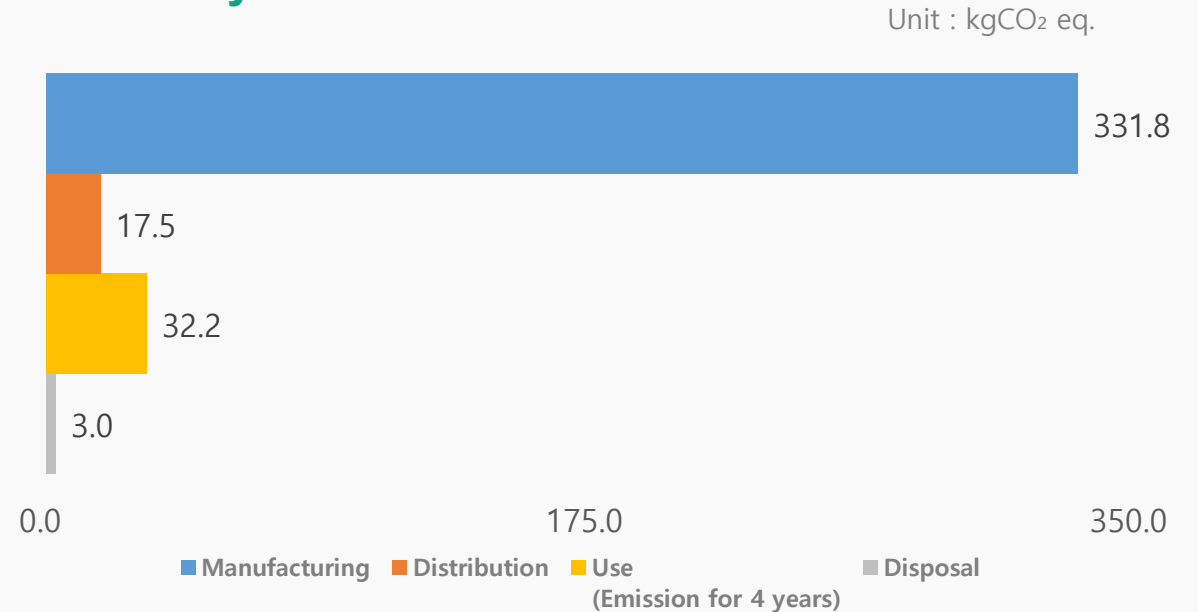
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book4 Pro 360

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## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## ● System boundary of LCA

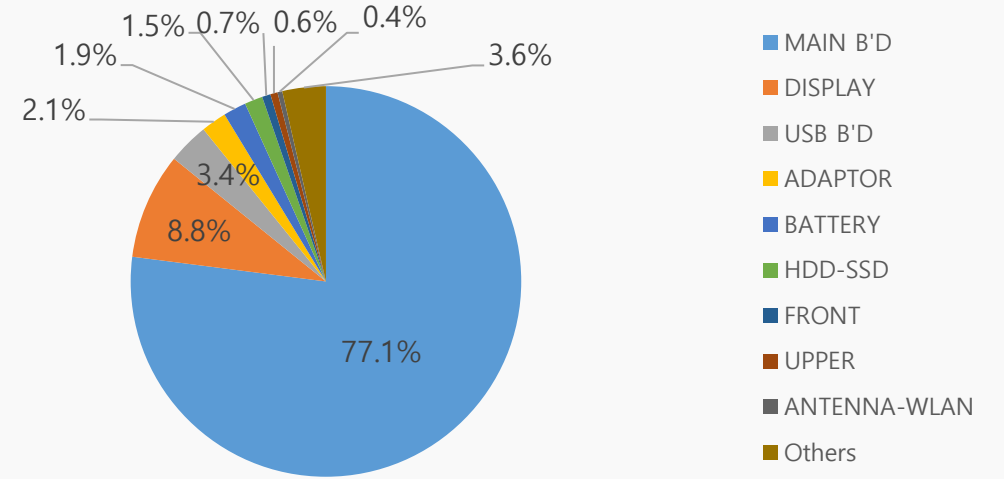
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

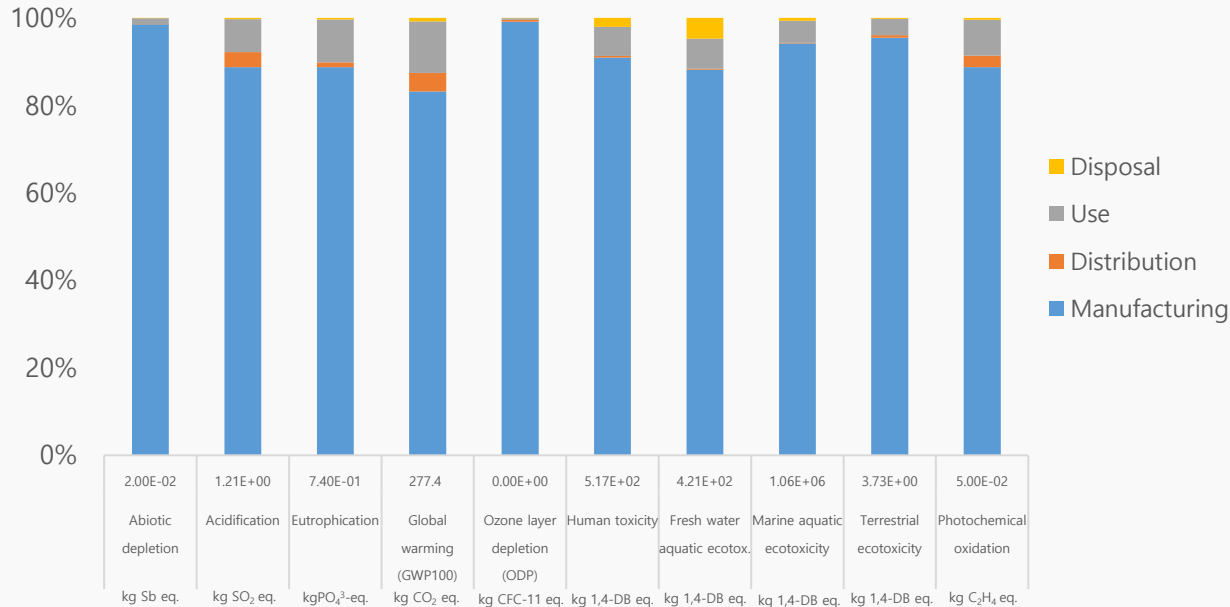


<b>Model name</b>	NP960QGK
<b>Dimension</b>	355.4 x 252.2 x 12.8 mm
<b>Display</b>	16" WQXGA+, AMOLED
<b>Weight</b>	Product & Acc. : 1,835.96g Packages : 1,042.96g
<b>Energy consumption</b>	16.97 kWh / year

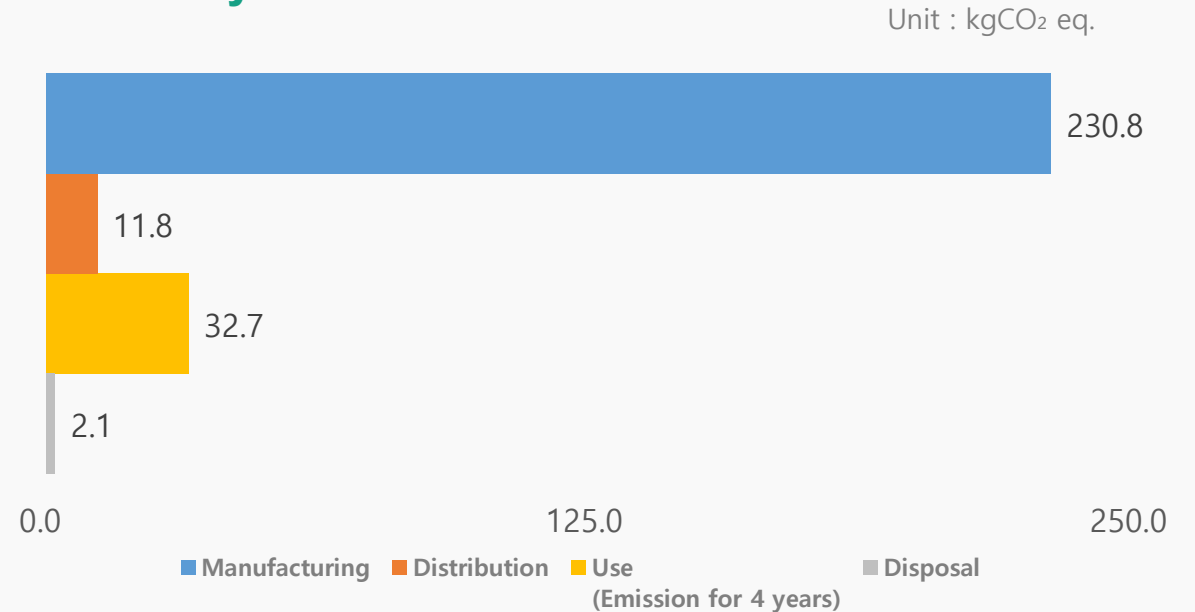
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book3 Ultra 16"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

## ● System boundary of LCA

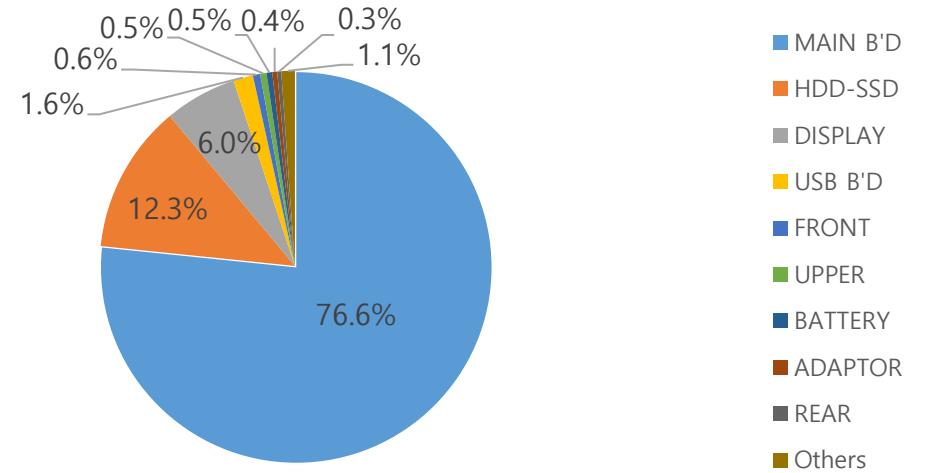
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

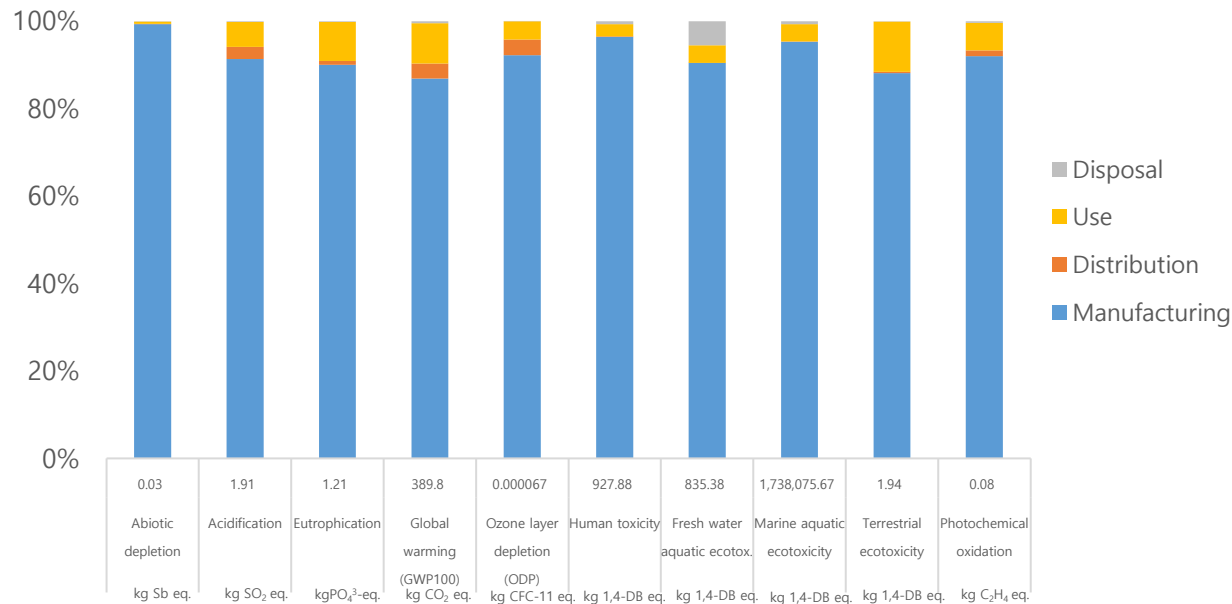


<b>Model name</b>	NP960XFH
<b>Dimension</b>	355.4 x 250.4 x 16.5 mm
<b>Display</b>	16" WQXGA+ AMOLED
<b>Weight</b>	Product & Acc. : 2085.17g Packages : 1231.28g
<b>Energy consumption</b>	15.49 kWh / year

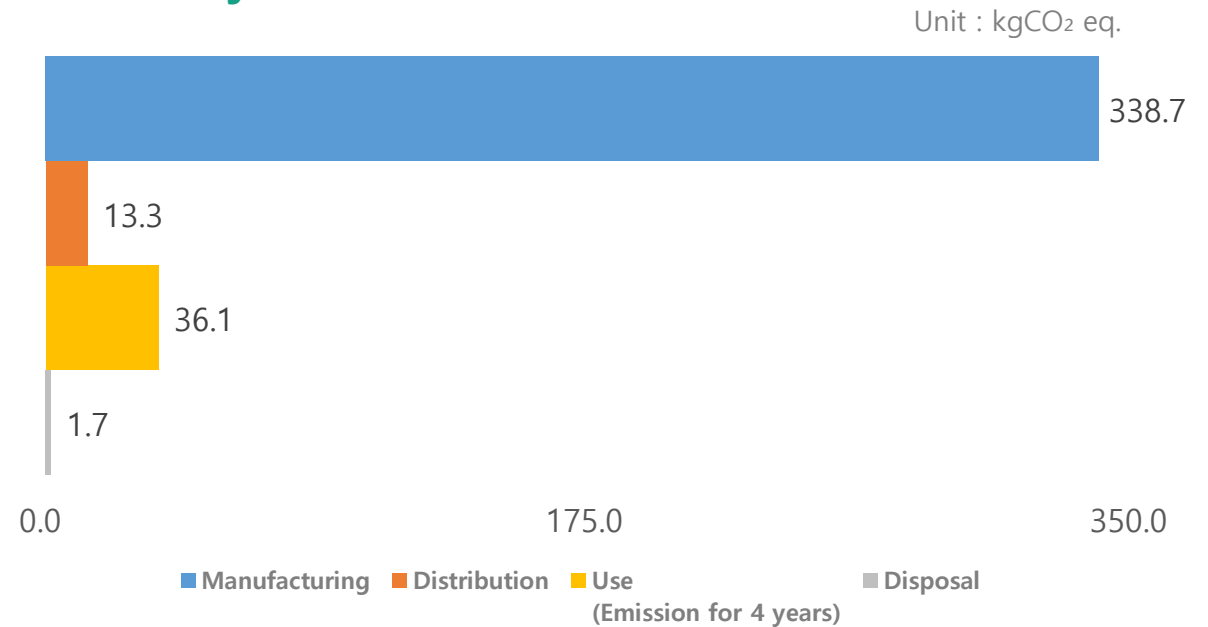
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book3 360 15.6"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

## ● System boundary of LCA

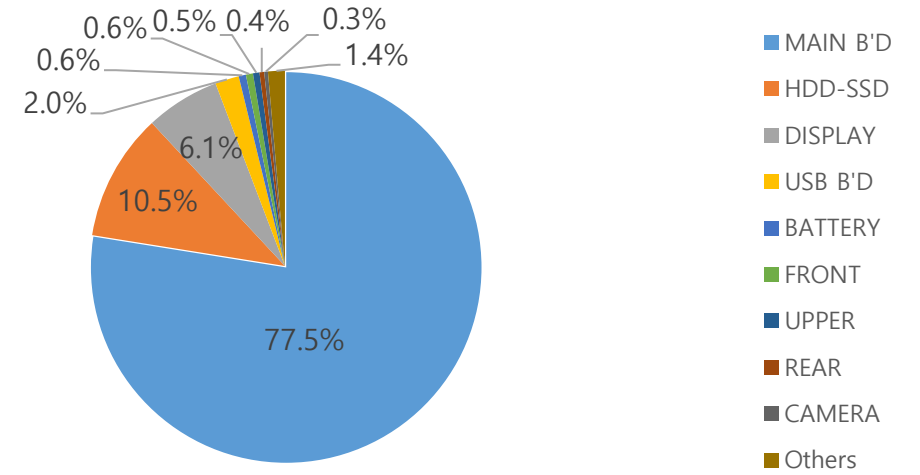
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

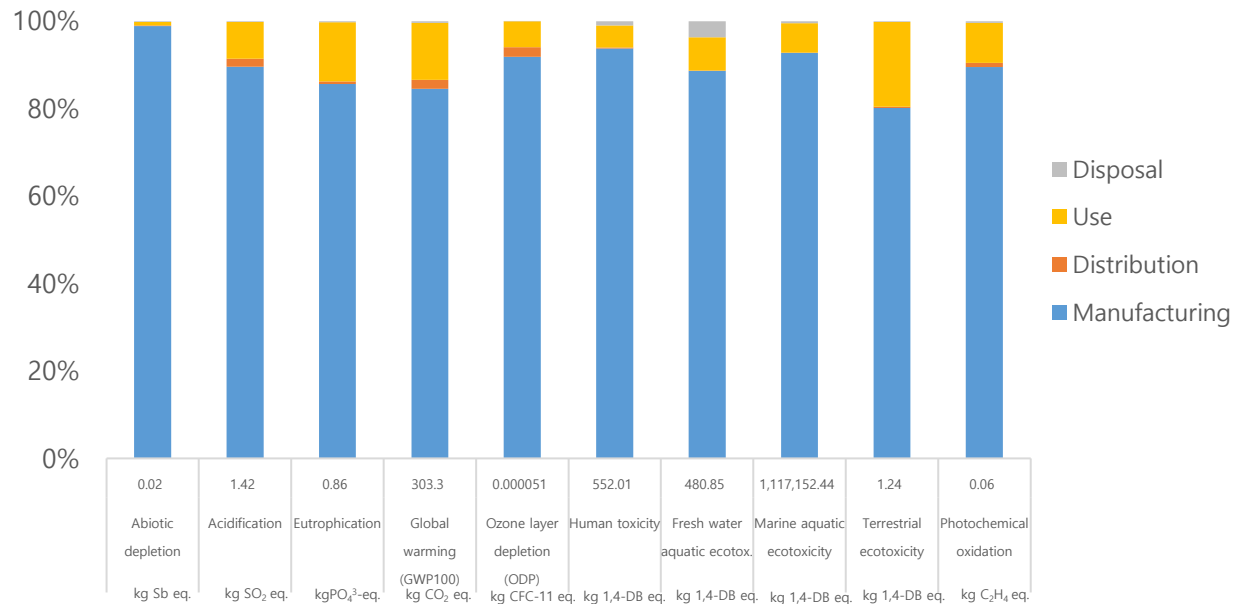


<b>Model name</b>	NP750QFG
<b>Dimension</b>	355.4 x 228 x 13.7 mm
<b>Display</b>	15.6" FHD AMOLED
<b>Weight</b>	Product & Acc. : 1624.17g Packages : 686.35g
<b>Energy consumption</b>	16.85 kWh / year

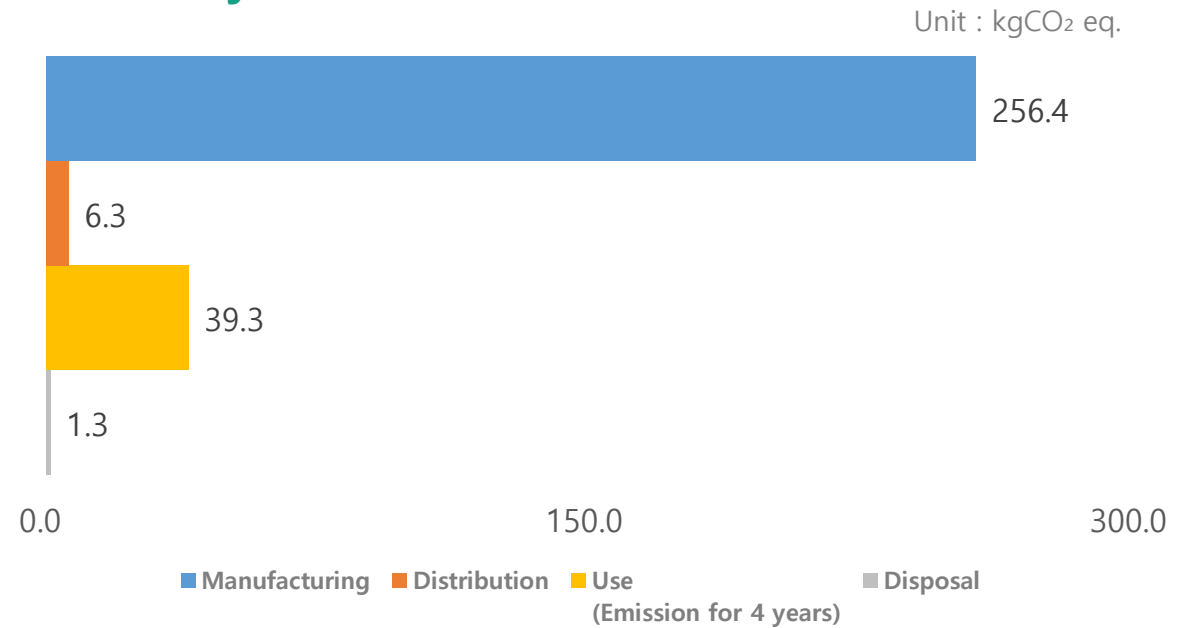
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book3 Pro 360 16"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

## ● System boundary of LCA

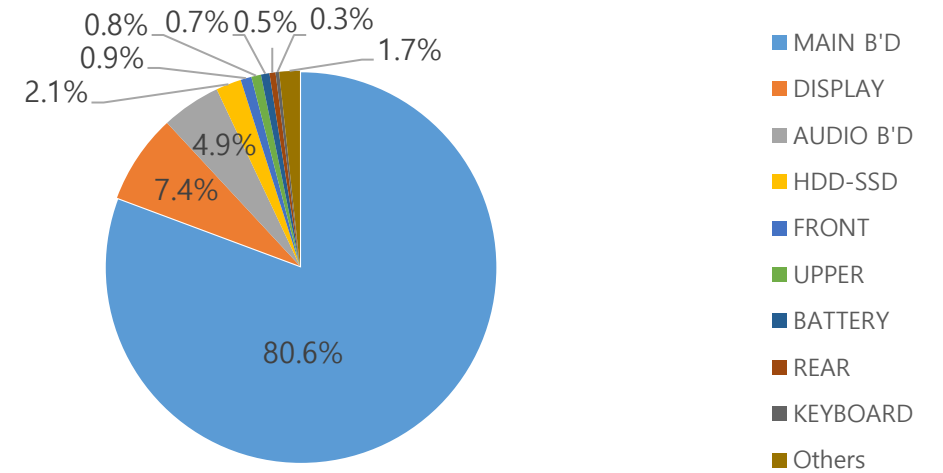
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

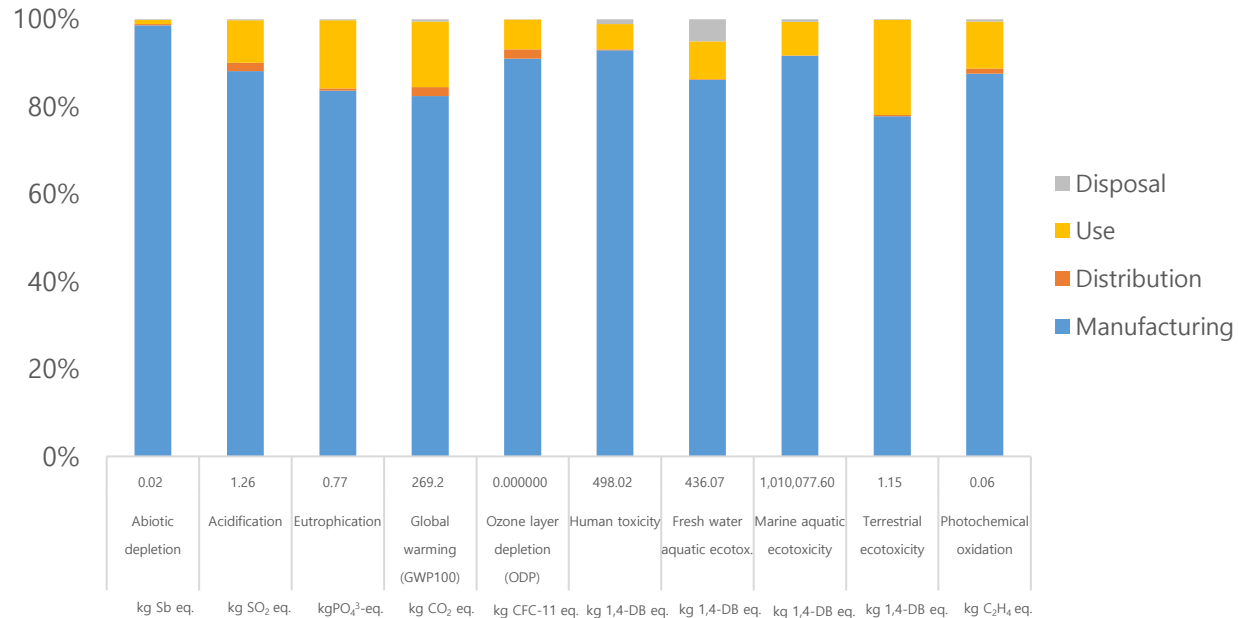


Model name	NP960QFG
Dimension	355.4 x 252.2 x 12.8 mm
Display	16.0" WQXGA+ AMOLED
Weight	Product & Acc. : 1,831.34g Packages : 998.24g
Energy consumption	17.36 kWh / year

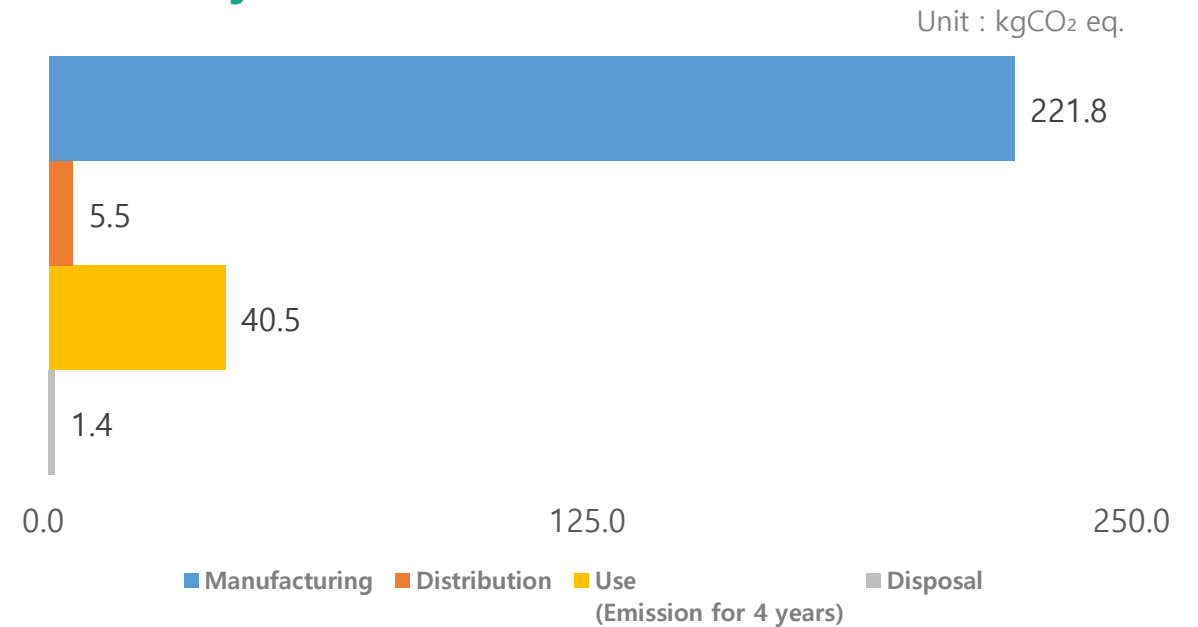
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book3 Pro 16"

## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

## ● System boundary of LCA

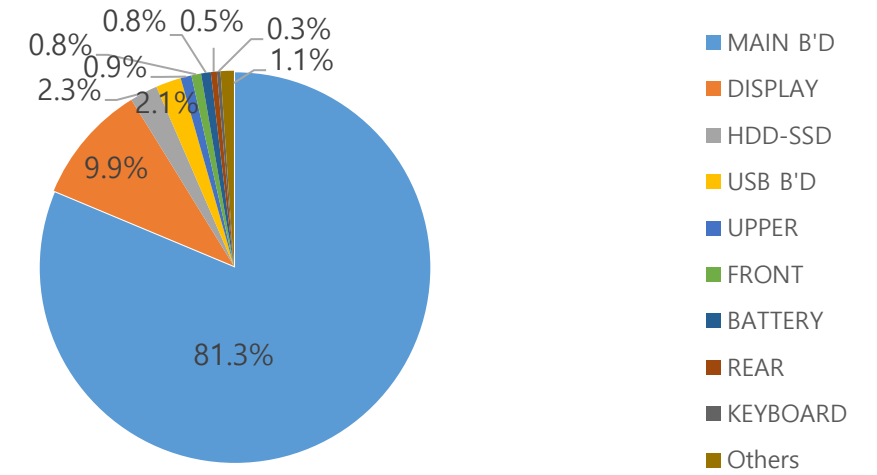
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

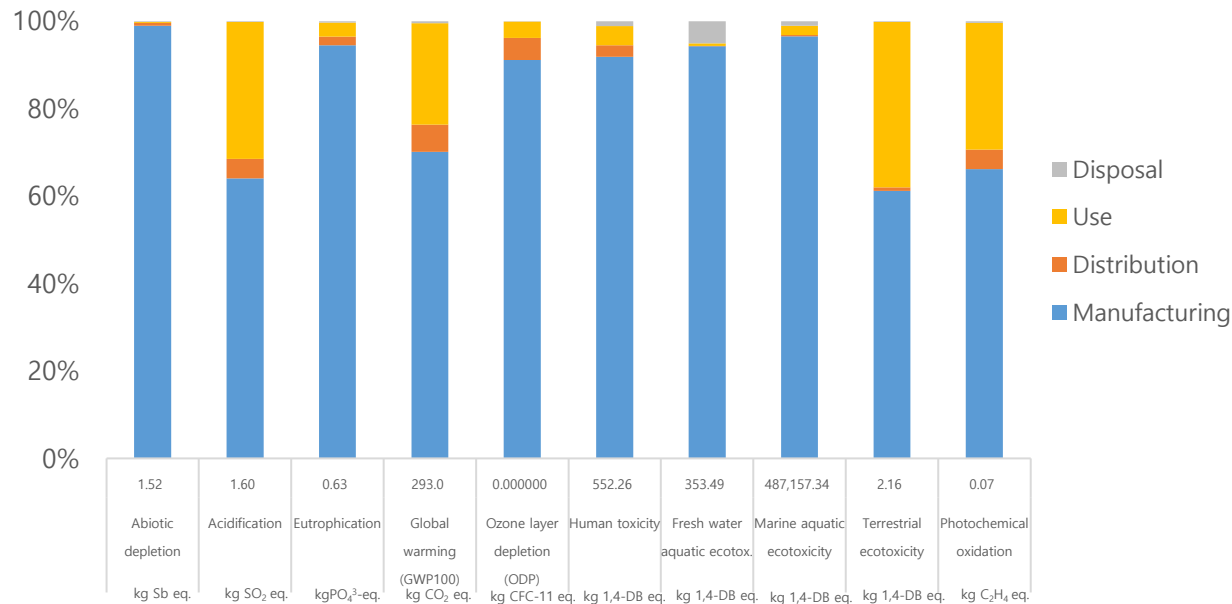


<b>Model name</b>	NP960XFG
<b>Dimension</b>	355.4 x 250.4 x 12.5 mm
<b>Display</b>	16.0" WQXGA+ AMOLED
<b>Weight</b>	Product & Acc. : 1724.62g Packages : 990.55g
<b>Energy consumption</b>	20.36 kWh / year

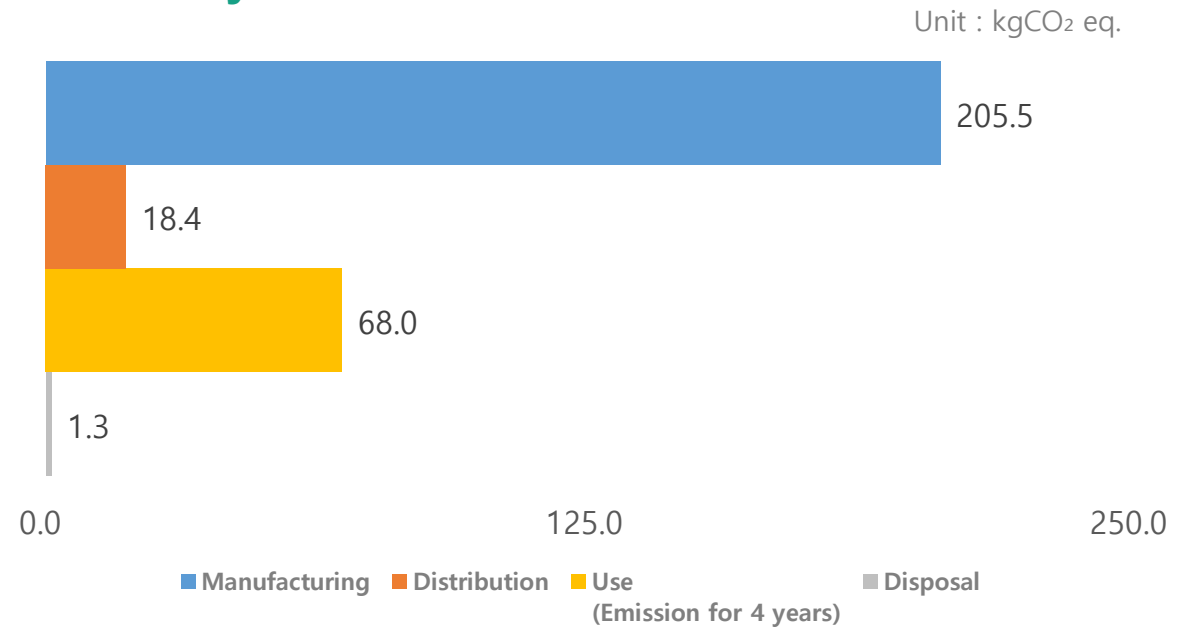
## ● Global Warming Impact Profile



## ● Characterized Environment Impact



## ● Life Cycle Carbon Emissions



\* The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Book3 Pro 14"

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## ● Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## ● Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

## ● System boundary of LCA

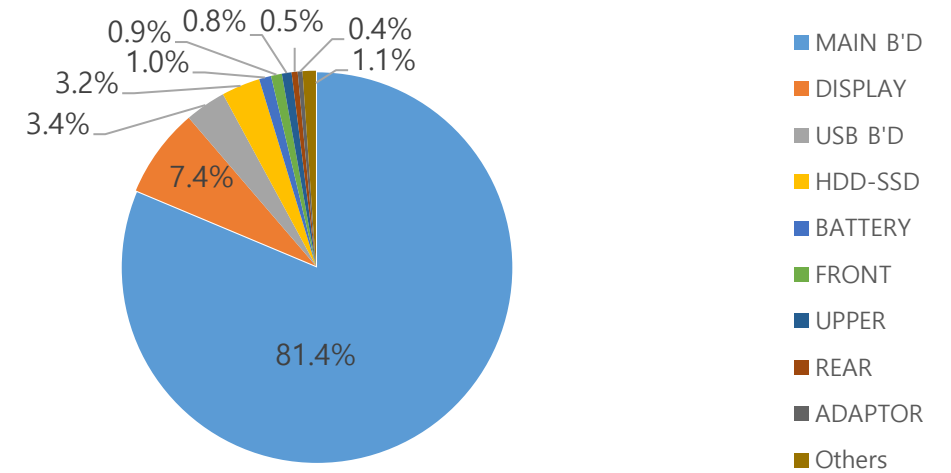
Pre-manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics Vietnam
Distribution	From Vietnam to United States
Use	4 years use
Disposal	Waste treatment of parts and material

## ● Product Features

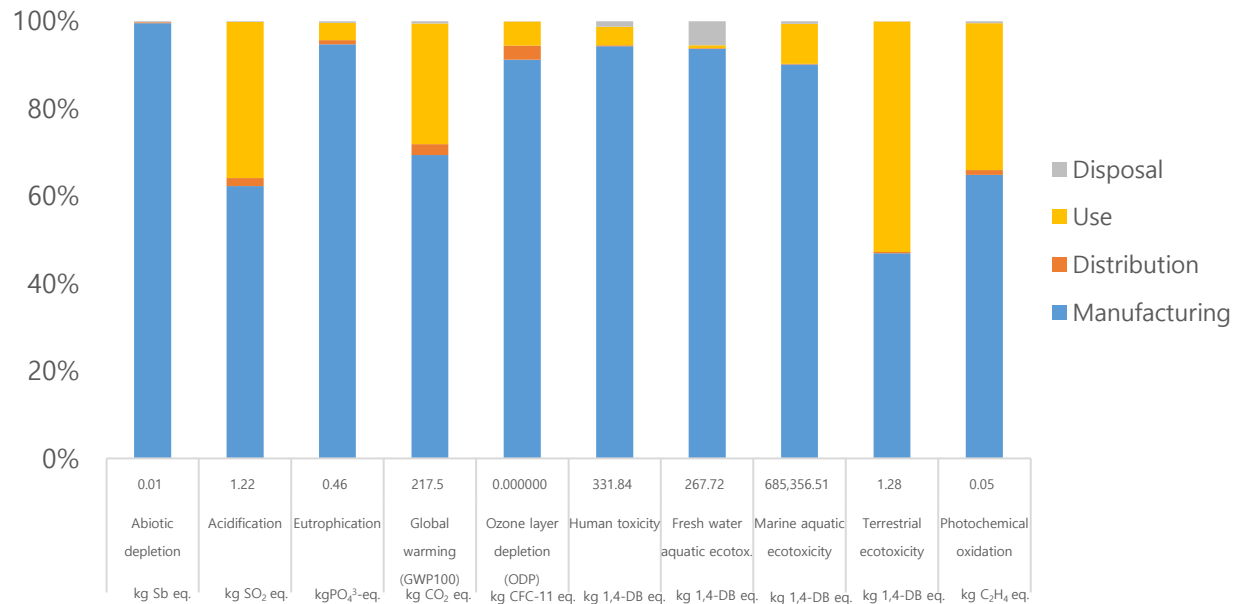


<b>Model name</b>	NP940XFG
<b>Dimension</b>	312.3 x 223.8 x 11.3 mm
<b>Display</b>	14.0" WQXGA+ AMOLED
<b>Weight</b>	Product & Acc. : 1333.70g Packages : 771.70g
<b>Energy consumption</b>	17.86 kWh / year

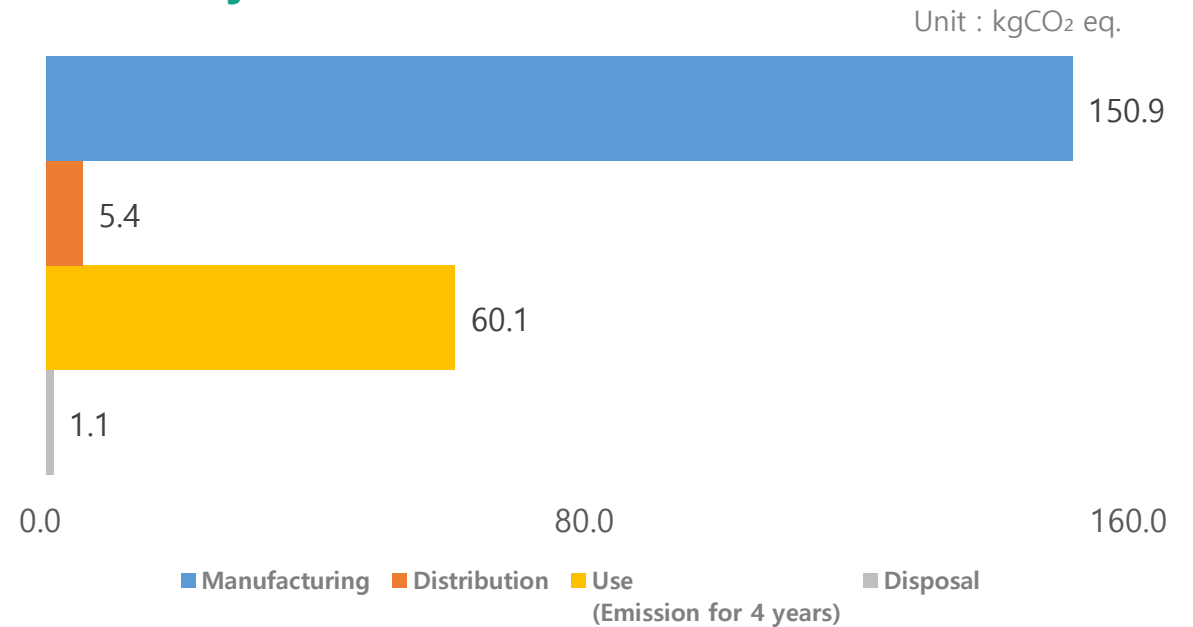
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