|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***OBJECT*** | | | | | | | | | | | | |
|  | ***Logistic Model*** | | | | ***Bass Model*** | | | | ***Gompertz Model*** | | | |
| ***Basic equation*** | l | a | | M | p | q | | M | l | a | | M |
| ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | |
| ***Variable upper limit*** | l | a | | k | p | q | | k | l | a | | k |
| ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | |
| ***Variable upper limit, variable costs*** | k | a | | R | p | q | | R | l | a | | M |
| ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | | ***Norm. R2*** | | ***p-value*** | |
| **WORLD** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,241 | 22,714 | | 2460,900 | 0,0005 | 0,249 | | 2407,096 | 2,149 | 0,067 | | 7713,561 |
| ***0,999*** | | ***2,240E-36*** | | ***0,999*** | | ***1,965E-37*** | | ***0,999*** | | ***2,760E-40*** | |
| ***Variable upper limit*** | 0,226 | 21,376 | | 0,083 | 0,0008 | 0,263 | | 0,087 | 2,035 | 0,080 | | 0,163 |
| ***0,999*** | | ***5,511E-37*** | | ***0,999*** | | ***3,990E-38*** | | ***0,999*** | | ***2,224E-38*** | |
| ***Variable upper limit, variable costs*** | 0,209 | 18,823 | | 0,004 | 0 | 0,315 | | 0,005 | 1,814 | 0,092 | | 0,007 |
| ***0,999*** | | ***5,430E-38*** | | ***0,999*** | | ***7,767E-38*** | | ***0,999*** | | ***2,711E-38*** | |
| **EUROPE** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,194 | 22,356 | | 785,143 | 0,0026 | 0,165 | | 968,861 | 1,835 | 0,056 | | 2288,977 |
| ***0,996*** | | ***9,715E-30*** | | ***0,997*** | | ***3,240E-32*** | | ***0,997*** | | ***1,977E-32*** | |
| ***Variable upper limit*** | 0,188 | 22,804 | | 0,203 | 0,0030 | 0,160 | | 0,249 | 1,821 | 0,055 | | 0,584 |
| ***0,996*** | | ***7,751E-30*** | | ***0,997*** | | ***2,216E-32*** | | ***0,997*** | | ***1,329E-31*** | |
| ***Variable upper limit, variable costs*** | 0,162 | 20,443 | | 0,013 | 0,0071 | 0,174 | | 0,016 | 1,587 | 0,058 | | 0,037 |
| ***0,996*** | | ***1,707E-30*** | | ***0,997*** | | ***1,716E-32*** | | ***0,997*** | | ***1,348E-31*** | |
| **NORTH AMERICA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,285 | 19,782 | | 459,180 | 0 | 0,271 | | 479,232 | 2,426 | 0,116 | | 705,347 |
| ***0,995*** | | ***2,991E-29*** | | ***0,996*** | | ***2,645E-29*** | | ***0,998*** | | ***2,010E-33*** | |
| ***Variable upper limit*** | 0,286 | 19,558 | | 0,084 | 9,160E-07 | 0,272 | | 0,089 | 2,451 | 0,121 | | 0,123 |
| ***0,995*** | | ***3,896E-29*** | | ***0,996*** | | ***1,908E-29*** | | ***0,997*** | | ***1,322E-32*** | |
| ***Variable upper limit, variable costs*** | 0,287 | 17,386 | | 0,005 | 0 | 0,289 | | 0,006 | 2,495 | 0,152 | | 0,006 |
| ***0,996*** | | ***1,314E-30*** | | ***0,996*** | | ***3,459E-30*** | | ***0,998*** | | ***5,203E-33*** | |
| **SOUTH AND C. AMERICA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,563 | 21,374 | | 95,828 | 0 | 0,534 | | 93,313 | 5,608 | 0,264 | | 124,514 |
| ***0,998*** | | ***1,822E-34*** | | ***0,996*** | | ***1,268E-29*** | | ***0,998*** | | ***5,898E-33*** | |
| ***Variable upper limit*** | 0,560 | 21,237 | | 0,071 | 0 | 0,532 | | 0,073 | 5,688 | 0,271 | | 0,090 |
| ***0,998*** | | ***1,840E-35*** | | ***0,996*** | | ***1,226E-29*** | | ***0,998*** | | ***5,520E-33*** | |
| ***Variable upper limit, variable costs*** | 0,575 | 20,629 | | 0,004 | 0 | 0,544 | | 0,004 | 6,205 | 0,309 | | 0,005 |
| ***0,998*** | | ***5,760E-36*** | | ***0,995*** | | ***2,280E-28*** | | ***0,998*** | | ***1,5E-32*** | |
| **ASIA PACIFIC** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,301 | 22,655 | | 852,913 | 1,109E-07 | 0,335 | | 774,102 | 2,568 | 0,090 | | 2224,594 |
| ***0,997*** | | ***1,385E-31*** | | ***0,997*** | | ***1,326E-31*** | | ***0,997*** | | ***1,583E-32*** | |
| ***Variable upper limit*** | 0,277 | 20,795 | | 0,058 | 3,633E-05 | 0,342 | | 0,065 | 2,495 | 0,113 | | 0,093 |
| ***0,997*** | | ***4,818E-31*** | | ***0,997*** | | ***2,574E-31*** | | ***0,997*** | | ***4,353E-31*** | |
| ***Variable upper limit, variable costs*** | 0,269 | 18,803 | | 0,003 | 0 | 0,364 | | 0,004 | 2,497 | 0,138 | | 0,004 |
| ***0,997*** | | ***4,983E-31*** | | ***0,997*** | | ***2,097E-31*** | | ***0,997*** | | ***5,105E-31*** | |
| **CANADA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,381 | 19,337 | | 40,832 | 2,149E-05 | 0,3959 | | 38,301 | 2,489 | 0,112 | | 74,520 |
| ***0,971*** | | ***1,837E-19*** | | ***0,970*** | | ***2,315E-19*** | | ***0,962*** | | ***3,951E-18*** | |
| ***Variable upper limit*** | 0,364 | 19,388 | | 0,063 | 0 | 0,390 | | 0,060 | 2,943 | 0,148 | | 0,091 |
| ***0,971*** | | ***1,917E-19*** | | ***0,972*** | | ***1,248E-19*** | | ***0,966*** | | ***1,176E-18*** | |
| ***Variable upper limit, variable costs*** | 0,353 | 18,062 | | 0,003 | 0 | 0,404 | | 0,004 | 2,532 | 0,147 | | 0,004 |
| ***0,969*** | | ***4,120E-19*** | | ***0,969*** | | ***3,991E-19*** | | ***0,963*** | | ***3,182E-18*** | |
| **USA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,281 | 19,496 | | 386,042 | 2,144E-05 | 0,269 | | 379,625 | 2,523 | 0,133 | | 491,754 |
| ***0,993*** | | ***4,745E-27*** | | ***0,994*** | | ***2,150E-27*** | | ***0,996*** | | ***1,324E-29*** | |
| ***Variable upper limit*** | 0,285 | 19,267 | | 0,086 | 0 | 0,266 | | 0,092 | 2,442 | 0,124 | | 0,123 |
| ***0,993*** | | ***3,195E-27*** | | ***0,994*** | | ***2,806E-27*** | | ***0,996*** | | ***3,847E-30*** | |
| ***Variable upper limit, variable costs*** | 0,291 | 16,981 | | 0,005 | 6,695E-06 | 0,284 | | 0,006 | 2,013 | 0,111 | | 0,008 |
| ***0,995*** | | ***1,459E-28*** | | ***0,995*** | | ***3,315E-28*** | | ***0,995*** | | ***1,565E-28*** | |
| **ARGENTINA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 1,321 | 24,516 | | 14,504 | 1,523E-07 | 0,756 | | 36,170 | 14,181 | 0,573 | | 22,315 |
| ***0,990*** | | ***6,532E-25*** | | ***0,945*** | | ***2,922E-16*** | | ***0,989*** | | ***1,450E-24*** | |
| ***Variable upper limit*** | 1,253 | 24,741 | | 0,117 | 3,014E-06 | 0,667 | | 0,093 | 10,518 | 0,406 | | 0,280 |
| ***0,990*** | | ***5,770E-25*** | | ***0,881*** | | ***2,437E-12*** | | ***0,989*** | | ***1,755E-24*** | |
| ***Variable upper limit, variable costs*** | 1,202 | 24,751 | | 0,008 | 6,308E-06 | 0,622 | | 0,011 | 15,162 | 0,616 | | 0,010 |
| ***0,990*** | | ***7,602E-25*** | | ***0,901*** | | ***2,856E-13*** | | ***0,989*** | | ***1,400E-24*** | |
| **BRASIL** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,700 | 20,809 | | 60,557 | 3,697-06 | 0,776 | | 57,237 | 8,743 | 0,436 | | 64,736 |
| ***0,998*** | | ***5,390E-35*** | | ***0,998*** | | ***2,858E-33*** | | ***0,996*** | | ***6,284E-30*** | |
| ***Variable upper limit*** | 0,753 | 20,556 | | 0,096 | 7,869E-06 | 0,780 | | 0,094 | 8,712 | 0,437 | | 0,105 |
| ***0,998*** | | ***3,130E-33*** | | ***0,998*** | | ***5,747E-34*** | | ***0,995*** | | ***1,658E-28*** | |
| ***Variable upper limit, variable costs*** | 0,799 | 20,132 | | 0,006 | 6,724E-06 | 0,901 | | 0,006 | 8,757 | 0,449 | | 0,007 |
| ***0,997*** | | ***1,291E-31*** | | ***0,998*** | | ***1,881E-34*** | | ***0,993*** | | ***2,881E-27*** | |
| **UK** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,269 | 22,936 | | 114,409 | 3,547E-06 | 0,264 | | 139,755 | 2,405 | 0,083 | | 292,032 |
| ***0,992*** | | ***4,395E-26*** | | ***0,991*** | | ***2,66E-25*** | | ***0,993*** | | ***3,605E-27*** | |
| ***Variable upper limit*** | 0,279 | 23,329 | | 0,3617 | 0 | 0,270 | | 0,343 | 2,448 | 0,078 | | 1,129 |
| ***0,991*** | | ***1,035E-25*** | | ***0,992*** | | ***3,952E-26*** | | ***0,993*** | | ***7,555E-27*** | |
| ***Variable upper limit, variable costs*** | 0,261 | 22,509 | | 0,0306 | 0 | 0,273 | | 0,034 | 2,542 | 0,106 | | 0,066 |
| ***0,992*** | | ***5,714E-26*** | | ***0,992*** | | ***3,007E-26*** | | ***0,992*** | | ***4,765E-26*** | |
| **GERMANY** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,138 | 33,191 | | 547,182 | 0,002 | 0,129 | | 387,067 | 1,792 | 0,045 | | 900,021 |
| ***0,978*** | | ***6,401E-21*** | | ***0,9778*** | | ***1,056E-20*** | | ***0,975*** | | ***3,812E-20*** | |
| ***Variable upper limit*** | 0,128 | 39,139 | | 1,507 | 0,0018 | 0,115 | | 1 | 1,732 | 0,049 | | 1 |
| ***0,981*** | | ***1,117E-21*** | | ***0,979*** | | ***4,670E-21*** | | ***0,972*** | | ***1,132E-19*** | |
| ***Variable upper limit, variable costs*** | 0,133 | 34,937 | | 48223,036 | 0,003 | 0,116 | | 0,207 | 1,489 | 0,061 | | 0,060 |
| ***0,981*** | | ***1,602E-21*** | | ***0,978*** | | ***8,020E-21*** | | ***0,968*** | | ***4,900E-19*** | |
| **FRANCE** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,220 | 23,983 | | 68,8267 | 0,0008 | 0,187 | | 147,613 | 2,136 | 0,052 | | 394,335 |
| ***0,983*** | | ***2,444E-22*** | | ***0,983*** | | ***2,999E-22*** | | ***0,986*** | | ***4,015E-23*** | |
| ***Variable upper limit*** | 0,219 | 24,049 | | 0,122 | 0,0015 | 0,204 | | 0,147 | 2,116 | 0,065 | | 0,334 |
| ***0,984*** | | ***2,114E-22*** | | ***0,985*** | | ***5,799E-23*** | | ***0,987*** | | ***8,925E-24*** | |
| ***Variable upper limit, variable costs*** | 0,197 | 21,987 | | 0,007 | 0,0037 | 0,212 | | 0,009 | 1,973 | 0,083 | | 0,011 |
| ***0,985*** | | ***9,450E-23*** | | ***0,986*** | | ***3,131E-23*** | | ***0,987*** | | ***1,020E-23*** | |
| **SWEDEN** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,292 | 21,450 | | 32,884 | 6,751E-05 | 0,289 | | 34,532 | 2,435 | 0,086 | | 99,999 |
| ***0,968*** | | ***6,276E-19*** | | ***0,967*** | | ***8,084E-19*** | | ***0,970*** | | ***2,590E-19*** | |
| ***Variable upper limit*** | 0,3015 | 20,582 | | 0,183 | 0 | 0,298 | | 0,203 | 2,665 | 0,122 | | 0,291 |
| ***0,968*** | | ***4,988E-19*** | | ***0,968*** | | ***5,965E-19*** | | ***0,971*** | | ***1,505E-19*** | |
| ***Variable upper limit, variable costs*** | 0,306 | 18,827 | | 0,011 | 0 | 0,306 | | 0,015 | 2,860 | 0,155 | | 0,015 |
| ***0,970*** | | ***2,831E-19*** | | ***0,969*** | | ***4,397E-19*** | | ***0,972*** | | ***1,279E-19*** | |
| **CHINA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,339 | 22,414 | | 653,670 | 0,0001 | 0,416 | | 573,878 | 2,855 | 0,107 | | 1499,926 |
| ***0,996*** | | ***1,405E-30*** | | ***0,995*** | | ***1,923E-28*** | | ***0,997*** | | ***1,573E-32*** | |
| ***Variable upper limit*** | 0,313 | 20,337 | | 0,0764 | 0,0012 | 0,426 | | 0,0783 | 2,942 | 0,144 | | 0,104 |
| ***0,996*** | | ***5,065E-30*** | | ***0,996*** | | ***1,181E-30*** | | ***0,996*** | | ***3,007E-30*** | |
| ***Variable upper limit, variable costs*** | 0,314 | 18,627 | | 0,004 | 0,0022 | 0,474 | | 0,005 | 1,963 | 0,083 | | 0,010 |
| ***0,996*** | | ***5,202E-30*** | | ***0,997*** | | ***8,567E-31*** | | ***0,994*** | | ***1,079E-27*** | |
| **AUSTRALIA** | | | | | | | | | | | | |
|  | **Logistic Model** | | | | **Bass Model** | | | | **Gompertz Model** | | | |
| ***Basic equation*** | 0,205 | 25,056 | | 43,433 | 0,0015 | 0,196 | | 50,796 | 2,084 | 0,044 | | 299,993 |
| ***0,990*** | | ***6,109E-25*** | | ***0,991*** | | ***9,069E-26*** | | ***0,992*** | | ***2,336E-26*** | |
| ***Variable upper limit*** | 0,203 | 24,286 | | 0,151 | 0,0018 | 0,186 | | 0,220 | 2,013 | 0,051 | | 0,474 |
| ***0,991*** | | ***1,713E-25*** | | ***0,992*** | | ***3,948E-26*** | | ***0,99343546*** | | ***7,99664E-27*** | |
| ***Variable upper limit, variable costs*** | 0,177 | 22,287 | | 0,009 | 0,0042 | 0,185 | | 0,015 | 1,913 | 0,092 | | 0,011 |
| ***0,992*** | | ***6,894E-26*** | | ***0,992*** | | ***2,056E-26*** | | ***0,992*** | | ***3,785E-26*** | |