Analysis of Agglomeration Impacts

N99 Upgrade Scheme (Sample)

9th August 2021

## Summary of Agglomeration Impacts

|  |  |
| --- | --- |
| Appraisal period | Present Value Benefits |
| 30 year benefits | € 53,425,447 |
| Residual value benefits | € 44,331,675 |

Total Agglomeration Benefits: € 97,757,122

## Table of Agglomeration Impacts

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Modelled Benefits | Nominal Benefits | Present Value Benefits |
| 2020 | € 0 | € 0 | € NA |
| 2021 | € 0 | € 0 | € 0 |
| 2022 | € 0 | € 0 | € 0 |
| 2023 | € 0 | € 0 | € 0 |
| 2024 | € 2,707,225 | € 3,477,106 | € 2,088,260 |
| 2025 | € 2,721,508 | € 3,575,846 | € 2,064,962 |
| 2026 | € 2,735,791 | € 3,677,288 | € 2,041,868 |
| 2027 | € 2,750,074 | € 3,781,506 | € 2,018,977 |
| 2028 | € 2,764,357 | € 3,888,572 | € 1,996,289 |
| 2029 | € 2,778,640 | € 3,998,562 | € 1,973,803 |
| 2030 | € 2,792,922 | € 4,111,556 | € 1,951,519 |
| 2031 | € 2,807,205 | € 4,227,631 | € 1,929,436 |
| 2032 | € 2,821,488 | € 4,346,871 | € 1,907,553 |
| 2033 | € 2,835,771 | € 4,469,360 | € 1,885,870 |
| 2034 | € 2,850,054 | € 4,595,184 | € 1,864,387 |
| 2035 | € 2,864,336 | € 4,724,431 | € 1,843,102 |
| 2036 | € 2,878,619 | € 4,857,193 | € 1,822,015 |
| 2037 | € 2,892,902 | € 4,993,562 | € 1,801,124 |
| 2038 | € 2,907,185 | € 5,133,635 | € 1,780,430 |
| 2039 | € 2,921,468 | € 5,277,510 | € 1,759,931 |
| 2040 | € 2,920,485 | € 5,397,078 | € 1,730,581 |
| 2041 | € 2,919,503 | € 5,519,354 | € 1,701,720 |
| 2042 | € 2,918,521 | € 5,644,399 | € 1,673,340 |
| 2043 | € 2,917,539 | € 5,772,277 | € 1,645,433 |
| 2044 | € 2,916,556 | € 5,903,051 | € 1,617,992 |
| 2045 | € 2,915,574 | € 6,036,787 | € 1,591,008 |
| 2046 | € 2,914,592 | € 6,173,553 | € 1,564,474 |
| 2047 | € 2,913,609 | € 6,313,416 | € 1,538,382 |
| 2048 | € 2,912,627 | € 6,456,447 | € 1,512,725 |
| 2049 | € 2,911,645 | € 6,602,718 | € 1,487,496 |
| 2050 | € 2,910,663 | € 6,752,302 | € 1,462,688 |
| 2051 | € 2,909,680 | € 6,905,274 | € 1,744,082 |
| 2052 | € 2,908,698 | € 7,061,710 | € 1,723,279 |
| 2053 | € 2,907,716 | € 7,221,690 | € 1,702,724 |
| 2054 | € 2,906,734 | € 7,385,293 | € 1,682,413 |
| 2055 | € 2,906,734 | € 7,555,155 | € 1,662,907 |
| 2056 | € 2,906,734 | € 7,728,923 | € 1,643,627 |
| 2057 | € 2,906,734 | € 7,906,689 | € 1,624,570 |
| 2058 | € 2,906,734 | € 8,088,543 | € 1,605,735 |
| 2059 | € 2,906,734 | € 8,274,579 | € 1,587,118 |
| 2060 | € 2,906,734 | € 8,464,894 | € 1,568,716 |
| 2061 | € 2,906,734 | € 8,659,587 | € 1,550,528 |
| 2062 | € 2,906,734 | € 8,858,757 | € 1,532,551 |
| 2063 | € 2,906,734 | € 9,062,509 | € 1,514,782 |
| 2064 | € 2,906,734 | € 9,270,947 | € 1,497,220 |
| 2065 | € 2,906,734 | € 9,484,178 | € 1,479,861 |
| 2066 | € 2,906,734 | € 9,702,314 | € 1,462,703 |
| 2067 | € 2,906,734 | € 9,925,468 | € 1,445,744 |
| 2068 | € 2,906,734 | € 10,153,753 | € 1,428,982 |
| 2069 | € 2,906,734 | € 10,387,290 | € 1,412,414 |
| 2070 | € 2,906,734 | € 10,626,197 | € 1,396,038 |
| 2071 | € 2,906,734 | € 10,870,600 | € 1,379,852 |
| 2072 | € 2,906,734 | € 11,120,624 | € 1,363,854 |
| 2073 | € 2,906,734 | € 11,376,398 | € 1,348,041 |
| 2074 | € 2,906,734 | € 11,638,055 | € 1,332,412 |
| 2075 | € 2,906,734 | € 11,905,730 | € 1,316,963 |
| 2076 | € 2,906,734 | € 12,179,562 | € 1,301,694 |
| 2077 | € 2,906,734 | € 12,459,692 | € 1,286,602 |
| 2078 | € 2,906,734 | € 12,746,265 | € 1,271,685 |
| 2079 | € 2,906,734 | € 13,039,429 | € 1,256,941 |
| 2080 | € 2,906,734 | € 13,339,336 | € 1,242,367 |
| 2081 | € 2,906,734 | € 13,646,141 | € 1,723,472 |
| 2082 | € 2,906,734 | € 13,960,002 | € 1,711,759 |
| 2083 | € 2,906,734 | € 14,281,082 | € 1,700,125 |

Analysis undertaken using pagglomR() package in R - version no. 0.1.0 developed and maintained by TII