**Step-by-Step Updated Calculations:**

1. **Number of Call-Outs Per Year**:
   * **Developers**: 169,000,000 call-outs/year.
   * **Employees**: 1,159,600,000 call-outs/year.
   * **Total Annual Call-Outs**: 1,328,600,000 call-outs/year.
2. **Annual Infrastructure Cost**:
   * **On-Premise Models**: Assumed to have negligible additional API cost. The focus is on operational costs, which are not detailed here.
   * **Annual API Infrastructure Cost**: $0 (as on-prem models are used).
3. **Daily Salary**:
   * **Developers and Employees**: $230.77/day (as before).
4. **Updated Time Saved and Cost Savings**:
   * **Time Saved per Search**: 2 to 3 minutes.
   * **Time Saved per Day (in hours)**:
     + Developers: 50 searches × (2 to 3 minutes) = 100 to 150 minutes = **1.67 to 2.5 hours/day**.
     + Other Employees: 20 searches × (2 to 3 minutes) = 40 to 60 minutes = **0.67 to 1 hour/day**.
   * **Annual Time Saved (in hours)**:
     + Developers: 1.67 to 2.5 hours/day × 260 days = **433.42 to 650 hours/year** per developer.
     + Employees: 0.67 to 1 hour/day × 260 days = **173.42 to 260 hours/year** per employee.
   * **Annual Cost Savings**:
     + **Developers**:
       - Minimum Savings: $230.77 × 433.42 × 13,000 = **$1,303,267,454/year**.
       - Maximum Savings: $230.77 × 650 × 13,000 = **$1,954,616,500/year**.
     + **Employees**:
       - Minimum Savings: $230.77 × 173.42 × 223,000 = **$8,933,105,342/year**.
       - Maximum Savings: $230.77 × 260 × 223,000 = **$13,408,646,200/year**.
5. **Total Cost Saved Annually**:
   * **Minimum Savings**: $1,303,267,454 (developers) + $8,933,105,342 (employees) = **$10,236,372,796/year**.
   * **Maximum Savings**: $1,954,616,500 (developers) + $13,408,646,200 (employees) = **$15,363,262,700/year**.
6. **Net Savings**:
   * **Net Savings (Min Estimate)**: $10,236,372,796/year.
   * **Net Savings (Max Estimate)**: $15,363,262,700/year.

**Final Analysis in Table Form:**

**Table 1: Cost Analysis**

| **Metric** | **Amount (USD)** |
| --- | --- |
| Annual Infrastructure Cost | $0 (On-prem models) |
| Minimum Cost Saved Annually | $10,236,372,796 |
| Maximum Cost Saved Annually | $15,363,262,700 |

**Table 2: Net Savings Analysis**

| **Metric** | **Amount (USD)** |
| --- | --- |
| Net Savings (Min Estimate) | $10,236,372,796 |
| Net Savings (Max Estimate) | $15,363,262,700 |

**Summary:**

* **Infrastructure Cost**: Assumed to be negligible due to the use of on-premise models.
* **Cost Savings**: The savings due to time efficiency range between $10.2 billion to $15.4 billion annually.
* **Net Savings**: The net benefit reflects substantial financial gains from using the system for improved productivity. ​