# Human Productivity-to-Token Simulator – Full Version

This simulator demonstrates how individual or community productivity is converted to QAI Tokens using a programmable matrix driven by QAI Agents.  
  
Key Features:  
- Role-Based Productivity Input: Teacher, Farmer, Engineer, Doctor, Cleaner, etc.  
- Activity Duration and Impact Estimation  
- Community Need Multiplier  
- Equity Adjustment Factor (age, disability, care duties)  
- QAI Agent Review Layer  
  
Sample Python Logic:  
  
def calculate\_tokens(role, hours, impact\_score, community\_need, equity\_factor):  
 base\_rate = {"Teacher": 5, "Farmer": 6, "Engineer": 7, "Doctor": 8, "Cleaner": 4}  
 productivity = base\_rate.get(role, 5) \* hours \* impact\_score  
 adjusted = productivity \* community\_need \* equity\_factor  
 return round(adjusted, 2)  
  
tokens = calculate\_tokens("Teacher", 6, 1.1, 1.2, 1.0)  
print(f"Tokens Earned: {tokens}")  
  
Use Cases:  
- Real-time dashboards for communities and planners  
- Token budgeting for community impact projects  
- Fair pay estimation across sectors without monetary bias