



2015年（第24回） ブループラネット賞
受賞者記念講演会

2015 Blue Planet Prize
Commemorative Lectures

ジェフリー・D・サックス教授

講演スライド集

SDGsの達成に向けて

Professor Jeffrey D. Sachs

Slides for the Lecture

“MEETING THE CHALLENGE OF
THE SUSTAINABLE DEVELOPMENT GOALS “

MEETING THE CHALLENGE OF THE SUSTAINABLE DEVELOPMENT GOALS

PROFESSOR JEFFREY D. SACHS

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BLUE PLANET PRIZE
COMMEMORATIVE LECTURE
OCTOBER 15, 2015

THE WORLD HAS ENTERED THE
AGE OF SUSTAINABLE DEVELOPMENT
WITH THE ADOPTION OF THE
SUSTAINABLE DEVELOPMENT GOALS
AT THE UNITED NATIONS ON SEPTEMBER 25.

SUSTAINABLE DEVELOPMENT MEANS ***ECONOMIC
DEVELOPMENT***
THAT IS
***SOCIALLY INCLUSIVE AND
ENVIRONMENTALLY SUSTAINABLE***

THE SDGS WILL OPERATE DURING 2016-2030



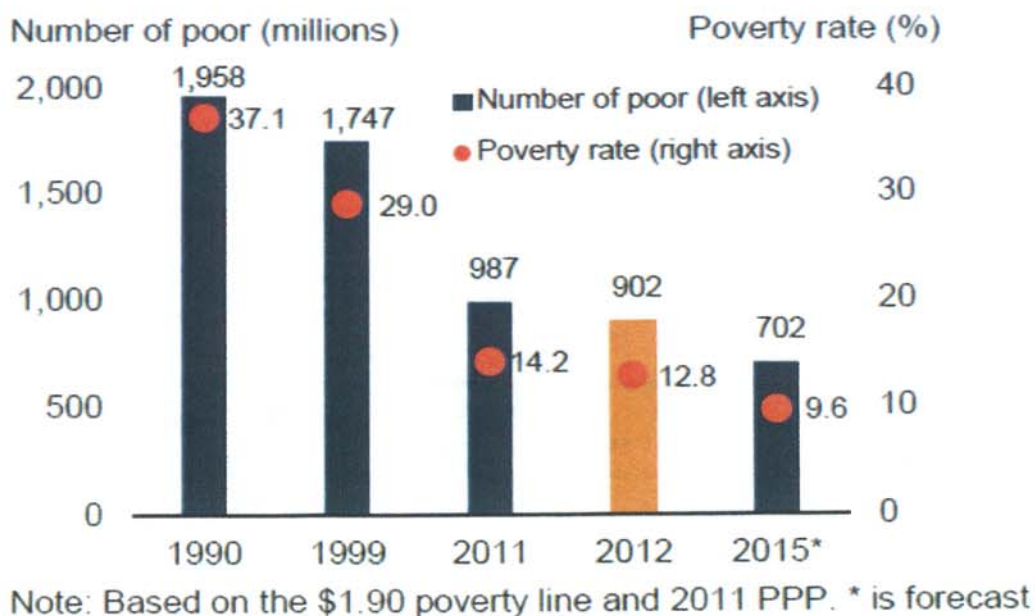
THE GRAND CHALLENGES OF SUSTAINABLE DEVELOPMENT:

ENDING EXTREME POVERTY (SDG 1, 2, 6, 7)
DECARBONIZING THE ENERGY SYSTEM (SDG 13)
SUSTAINABLE FOOD & AGRICULTURE (SDG 2, 14, 15)
SMART INFRASTRUCTURE & CITIES (SDG 9, 11)
SUSTAINABLE INDUSTRIAL PRODUCTION (SDG 12, 14, 15)
UNIVERSAL ACCESS TO QUALITY HEALTH (SDG 3),
AND EDUCATION (SDG 4)
PROMOTING JOB SKILLS AND EMPLOYMENT (SDG 8)
ENHANCING SOCIAL INCLUSION (SDG 5, 10, 16, 17)

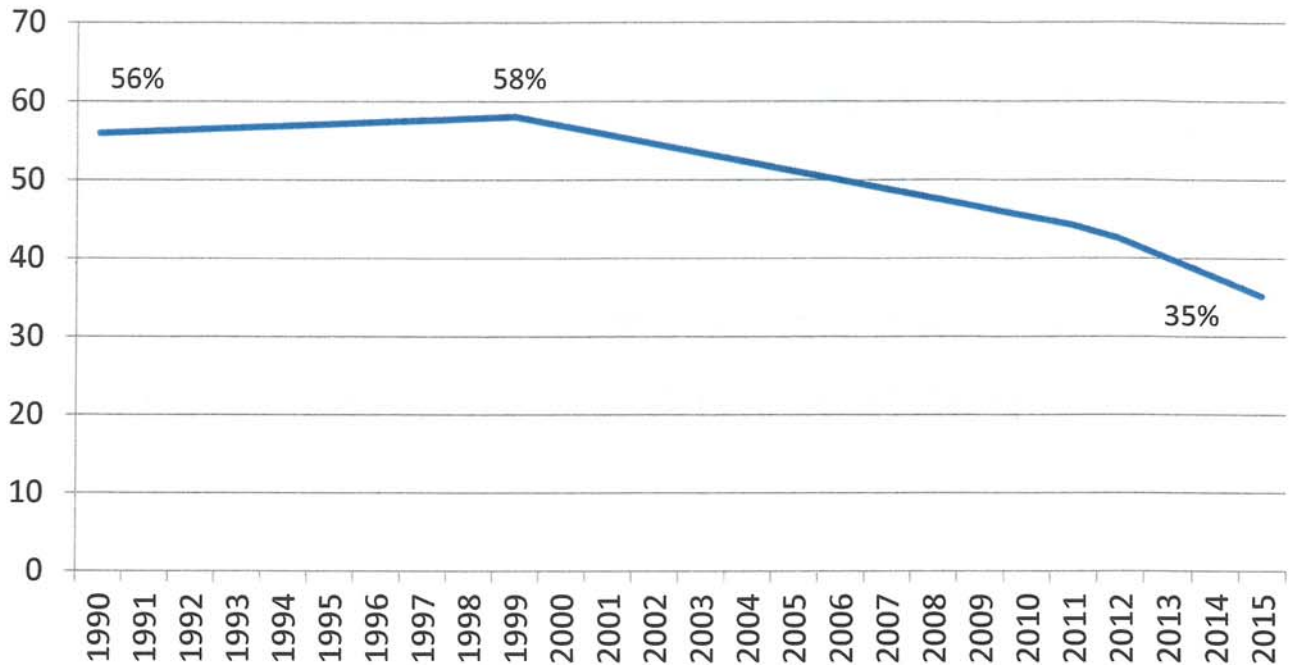
GOOD NEWS DURING THE MILLENNIUM DEVELOPMENT GOAL ERA:

SIGNIFICANT PROGRESS IN FIGHTING HUNGER, POVERTY, AND DISEASE

Projections show that the global poverty rate may have fallen to single digits in 2015. Yet, the number of poor remains high.

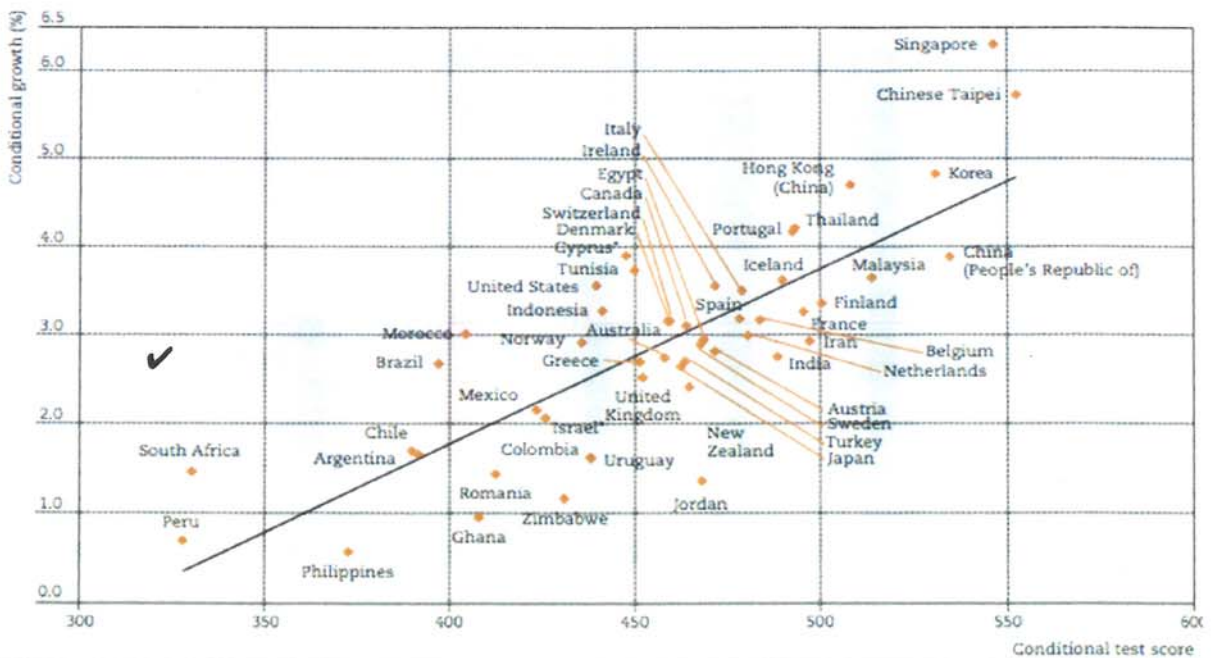


AFRICAN HEADCOUNT POVERTY RATE



EDUCATIONAL QUALITY HAS BEEN KEY FOR ECONOMIC GROWTH AND IS KEY TO SDG 4

FIGURE 2.1 KNOWLEDGE CAPITAL AND ECONOMIC GROWTH RATES ACROSS COUNTRIES



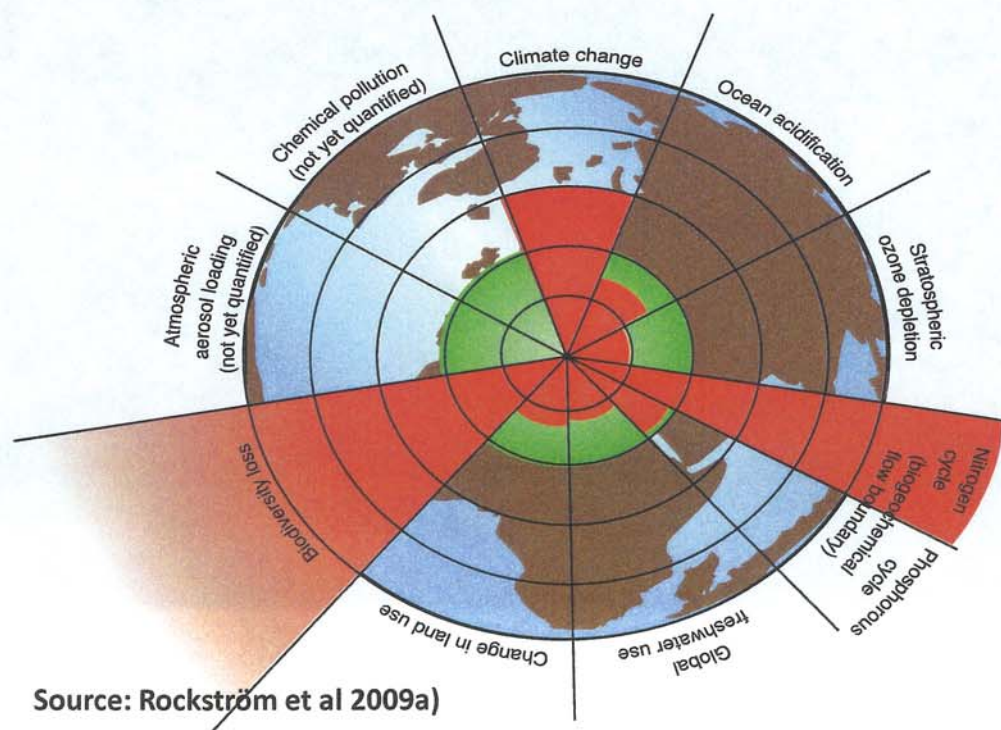
YET GLOBAL DEVELOPMENT IS NOT YET SUSTAINBLE DEVELOPMENT

EXTREME POVERTY CONTINUES IN MUCH OF SUB-SAHARAN AFRICA AND PARTS OF ASIA

THERE IS HIGH INCOME INEQUALITY, SOCIAL EXCLUSION, RAPID POPULATION GROWTH, AND YOUTH UNEMPLOYMENT IN MANY REGIONS, CONTRIBUTING TO INSTABILITY, CONFLICT AND FORCED MIGRATION

THE WORLD FACES PROFOUNDLY THREATENING ENVIRONMENTAL TRENDS AND CRISES THAT THREATEN PEACE AND THE GAINS IN POVERTY REDUCTION

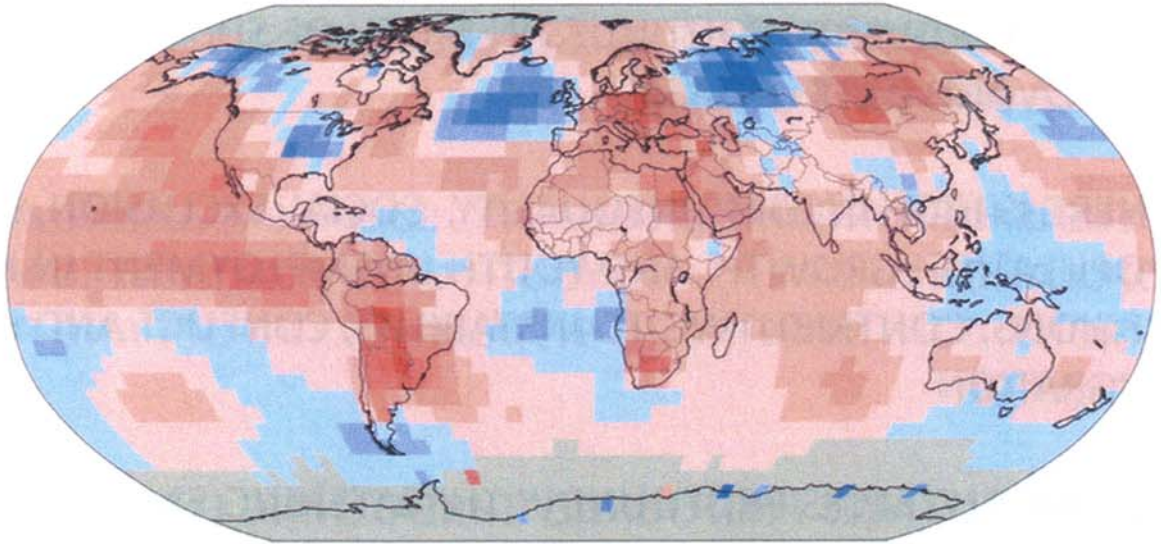
HUMANITY IS VIOLATING THE “PLANETARY BOUNDARIES”



2015 WARMEST TO DATE IN 136-YEAR RECORD

Land & Ocean Temperature Departure from Average Aug 2015
(with respect to a 1981–2010 base period)

Data Source: GHCN-M version 3.3.0 & ERSST version 4.0.0

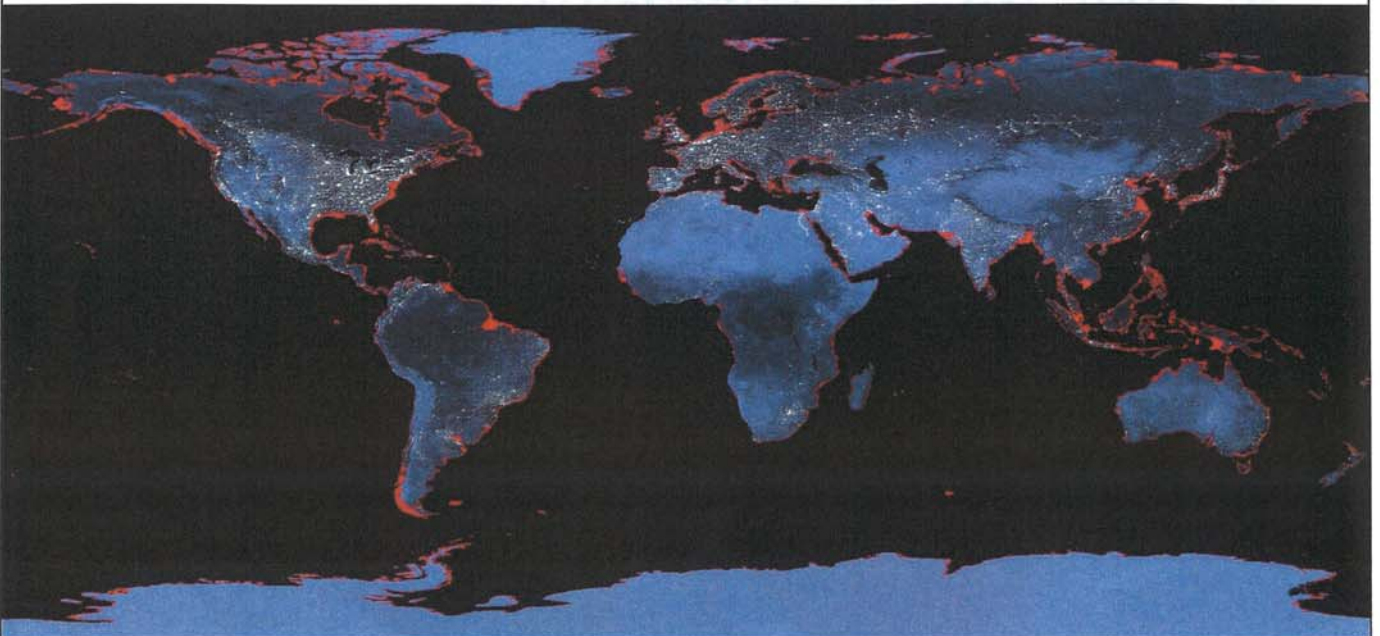


National Centers for Environmental Information
Mon Sep 14 06:43:12 EDT 2015

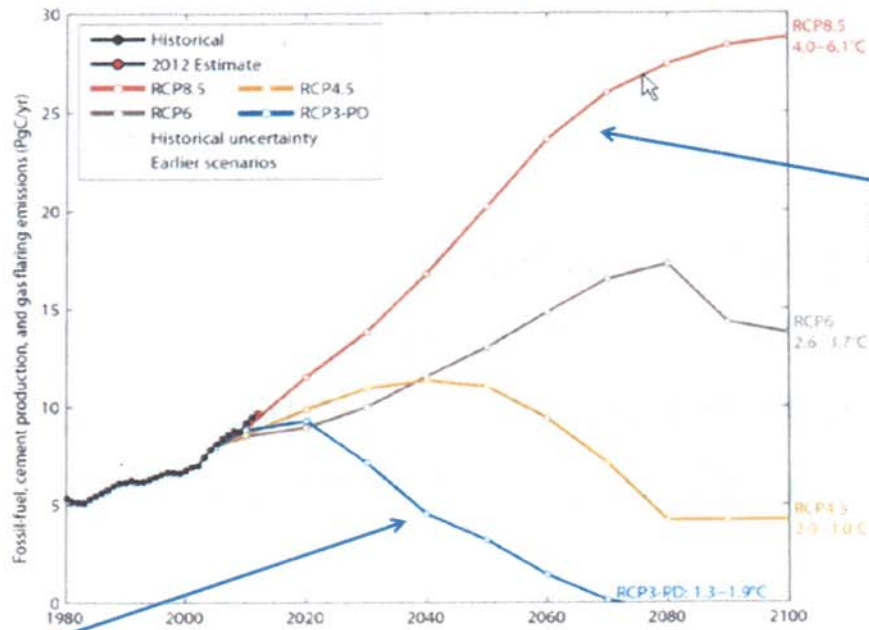
Degrees Celsius

Please Note: Gray areas represent missing data
Map Projection: Robinson

Land Lost to 6M Sea Level Rise, NASA



Emissions are heading to a 4.0-6.1°C “likely” increase in temperature
 Large and sustained mitigation is required to keep below 2°C



Linear interpolation is used between individual datapoints

2-degree C

Source: [Peters et al. 2012a](#); [Global Carbon Project 2012](#);

COMPONENTS OF AN EFFECTIVE SYSTEM TO ACHIEVE THE SDGS AT NATIONAL, LOCAL, AND GLOBAL LEVELS

FIRST:

SDG-BASED PLANNING AND BUDGETING,
BASED ON “BACKCASTING,” TECHNOLOGY
ROADMAPPING, MONITORING, REAL-TIME
DATA, INTENSIVE LEARNING CYCLES

pathways to
deep decarbonization

interim 2014 report

THE DEEP
DECARBONIZATION
PATHWAYS
PROJECT



IDDRI



SECOND,

GLOBAL NETWORK OF UNIVERSITIES, THINK TANKS, AND “EPISTEMIC COMMUNITIES” INVOLVING EACH OF THE SDGS AND THEIR INTERCONNECTIONS

(THE UN SDSN IS ESTABLISHED FOR THIS PURPOSE)

The **Sustainable Development Solutions Network** operates under the auspices of UN Secretary-General Ban Ki-moon, and engages scientists, engineers, business and civil society leaders, and development practitioners for evidence-based problem solving. Its member institutions, notably universities, research centers, and think tanks, work with government, business and civil society to promote innovations to support sustainable development (www.unsdsn.org)

MEMBERS OF THE SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK (SDSN)



LAUNCH OF SDSN JAPAN



THIRD,

THE RAPID DEPLOYMENT OF BROADBAND PLATFORMS FOR EDUCATION, HEALTH CARE, SUSTAINABLE INFRASTRUCTURE, PAYMENTS, FINANCE, MONITORING AND REMOTE SENSING SYSTEMS (INTERNET OF THINGS) AND REAL-TIME DATA FLOWS ON SDGS

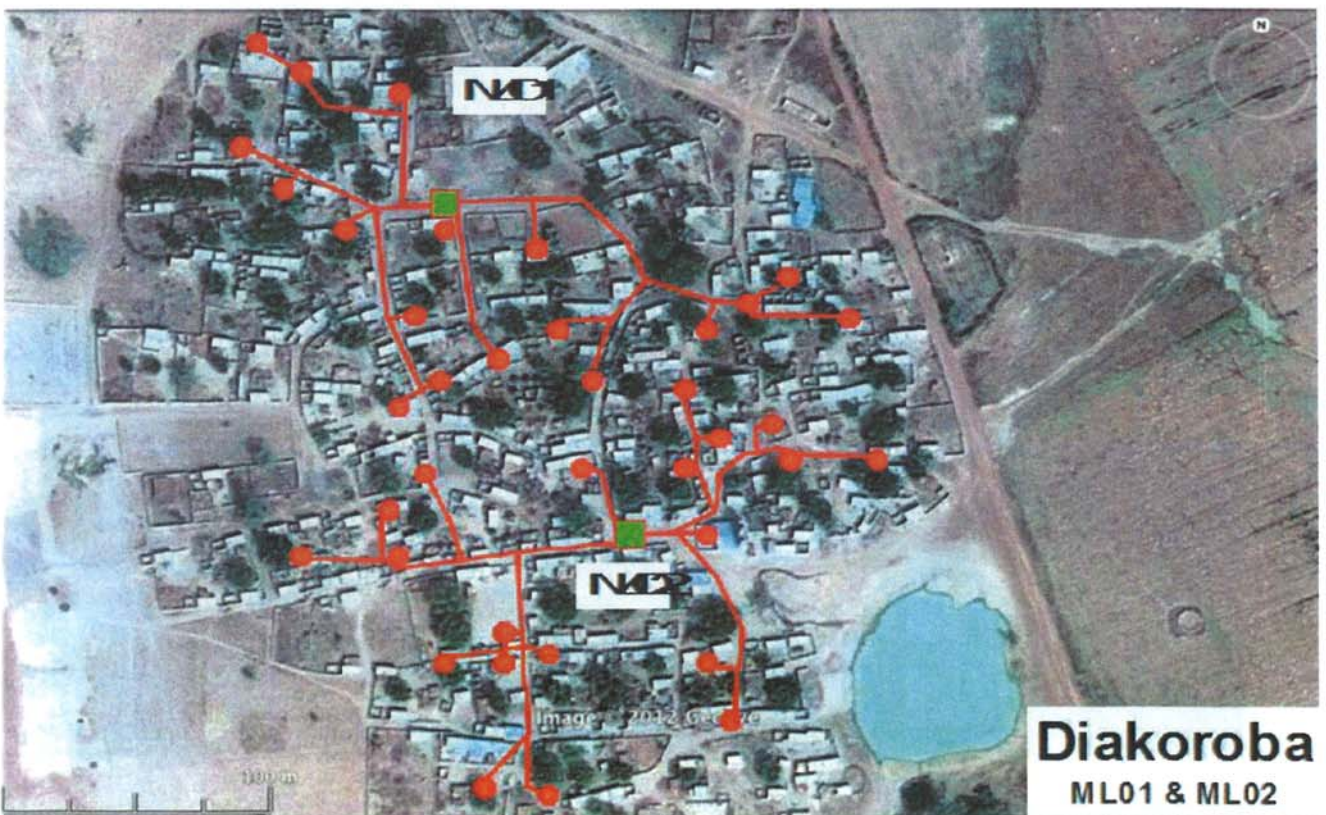
ICT IN HEALTH: COMMUNITY HEALTH WORKERS



ICT IN EDUCATION: CONNECT TO LEARN IN SENEGAL



ICT IN INFRASTRUCTURE: SOLAR MINI-GRIDS



FOURTH,

THE INFORMED ENGAGEMENT OF THE
CITIZENRY IN SDG PLANNING AND
IMPLEMENTATION AT LOCAL,
STATE/PROVINCIAL, AND NATIONAL
LEVELS, AND INTERFACE WITH
GOVERNMENT AND EXPERT
COMMUNITIES

FIFTH,

GLOBAL TECHNOLOGY COOPERATION ON
THE CRITICAL SDG CHALLENGES,
INCLUDING: LOW-CARBON ENERGY,
CIRCULAR ECONOMY, SMART CITIES, ICT-
ENABLED HEALTH AND EDUCATION,
SUSTAINABLE AGRICULTURE

**TAKING LESSONS AND INSPIRATION FROM THIS
YEAR'S NOBEL PRIZE IN MEDICINE:**



Left to right: Satoshi Omura, Youyou Tu, William Campbell.

**GLOBAL COOPERATION, SAVING LIVES,
LEARNING FROM NATURE**

**THANK YOU TO THE BLUE PLANET
PRIZE SELECTION COMMITTEE AND
THE ASAHI GLASS FOUNDATION!**