



World's Biggest Hackathon

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Department of Rural Development (DRD)

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Department of Rural Development (DRD)

The Ministry of Rural Development plays a key role in poverty alleviation, inclusive growth and overall development in the rural areas of the country. In view of this, various government flagship programs/schemes have been implemented, where each program aims to provide support and cater to address problems faced in specific areas. Through these schemes, ministry aims to improve the quality of life, correct the developmental imbalances and to extend assistance to most disadvantaged sections of rural India. Key issues being targeted include (but not limited to) areas of rural

employment, livelihood generation, rural connectivity, social assistance, rural housing to name a few. For Smart India Hackathon 2017, they seek solutions for 25 problem statements.

Conference room booking system across multiple ministries/departments in different buildings

#MRD25 Total Submissions: 23

Creation of a centralized platform/Mobile App which acts as a repository listing down location wise conference rooms available across different departments in different locations. An official can log into the system, check the room options available and accordingly book the meeting room for a particular date and time in advance, in the building as per applicability or requirement. It should be able to provide real time status regarding allocation (booked/free) status of available rooms for conducting meetings basically delimiting the scope of a meeting room being used for a particular department only.

Sample Data Required: No





#MRD24

Total Submissions: 15

A system is needed to be put in place to help with physical intruder detection on various computers. In case of an unauthorized access on a computer, provision to be made such that the intruder details can be captured and appropriately alerts can be triggered to the owner of that computer.

Sample Data Required: No

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Ensuring free flow, uninterrupted, regular internet bandwidth usage at all times for using internet for official work and limiting available bandwidth for accessing other internet sites/urls

#MRD23 Total Submissions: 12

Accessing leisure sites (such as youtube, videos, downloading etc.) can consume large bandwidth and thus can slow the BAU process for departments' functioning using internet for various official works. System to be developed such that the bandwidth resources (when under strain due to unofficial site access) are blocked and the resources freed up for official work.(eOffice)

Sample Data Required: No

PARTICIPATE





Assessment of all computers for pirated and unauthorized software/s installed on system

#MRD22 Total Submissions: 5

Currently, a lot of pirated and unauthorized software/s are installed on various computers by users which are not ethical and are a threat in some form or the other. Solution is needed which can help track, consolidate and report all such software/s along with other relevant details so that appropriate measures can be taken.

Sample Data Required: No

PARTICIPATE





System generating the total no of people eligible for receiving pensions under NSAP (Indira Gandhi National Old Age Pension Scheme) but are not included (area wise)

Total Submissions: 15

Currently the eligible people are identified based on the details of individuals filtered from the NSAP DB after satisfying the eligibility criteria for scheme.

However, there are chances that details of many individuals are not there in NSAP DB and therefore although eligible, might not be considered for the payment of pensions.

Requirement is of a system which is able to fetch details/information using other DBs (such as SECC), compare with entries in NSAP DB and provide the mismatch count or list of individuals that are eligible yet not covered for the pension scheme for each location/area as required.

Sample Data Required: Yes

Expenditure and Beneficiaries Under NSAP from 2002-03 to 2014-15	https://data.gov.in/catalog/expenditure-and-beneficiaries-under-nsap
Physical And Financial Progress of NSAP Components	https://data.gov.in/catalog/physical-and-financial-progress-nsap-components
National Social Assistance Programme (NSAP) Progress In The Eleventh Plan	https://data.gov.in/catalog/national-social-assistance-programme-nsap-progress-eleventh-plan

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<u>Provision for a centralized one stop source for information about all government programs/schemes drillable to village level for SAGY.</u>

#MRD20 Total Submissions : 8

The development of Gram Panchayats identified under SAGY is intended to take place through the convergence and implementation of existing Government Schemes and Programs without allocating additional funds.

The Ministry of Rural Development has brought out a document named 'Samanvay' – compilation of 223 Central sector, Centrally sponsored and 1806 State schemes.

Ministry intends that this data may be leveraged for a mobile application with user friendly search options for better utilization by all the stakeholders of rural development. The mobile application may be named as 'e-SAMANVAY'. The information may be made available in both English and Hindi with provision for adding regional languages later.







System for efficient and transparent process of buyer-seller interactions, provision for creating niche product offerings for SHG groups for all areas

#MRD19 Total Submissions: 13

The basic idea behind the NRLM gov. scheme/program is to organize the people in rural areas into SHG (self Help Groups) and make them capable of self-employment by helping them start some entrepreneurial activities. These SHGs provide various offerings in form of products and services which can be used on demand basis by any individual. Key problems encountered are:

Restricted growth, localization of products and services, Limited exposure to vast market (consumption within small geographical area), limiting or reducing the demand and supply requirements.

Currently, products made by SHG groups in a particular area offer lower quantity, several types products. Provision for enabling SHGs within a particular area to produce same type of output product so that the volume is more, thus attracting an entrepreneur/investor/buyer to source from that region itself and avoid searching otherwise.

Solution is needed to analyze these gaps and challenges and create a solution which would enable better and transparent process of buyer-seller mechanism.

Sample Data Required: No

PARTICIPATE





Improving the existing employment framework/mechanism for skilled people

#MRD18 Total Submissions: 15

Emphasis is to skill over 40 crore people in various kinds of multiple skills by 2022 so that they get employment and thus improve entrepreneurship. Some problems faced in existing system :

Chances of the skilled youth not landing up a job due to improper demand tracking/awareness. Possibility of exploitation and mismanagement of employed youth by the employer with no one to adequately help post job. No proper mapping or tracking of a skilled youth with the job allocated to him. Lack of Awareness, Improper demand-supply matching interface/repository even when there is a large demand available.

The key problem faced in this is proper tracking, allocation and employment of the trained/skilled youth in a relevant sector. An avenue/platform is needed where individual departments of ministries have direct access or they can directly seek for skilled people for large demands in various job areas to cater to their requirements.







An app/IVRS solution for DDU-GKY beneficiaries

#MRD17

Total Submissions: 4

DDU-GKY has plenitude of monetary and process oriented benefits aligned to support candidates. It's important for the beneficiary to know what he/she is eligible for and it's important for the Ministry to know whether the beneficiaries are being given the support that's mandated.

A tool is required which opens up communication directly with the beneficiaries — right from mobilization, training to post placement and can be an invaluable tool to monitor the scheme

Sample Data Required: No

PARTICIPATE



An android application solution for mobilization/Identification of Beneficiaries

#MRD16

Total Submissions: 10

PIAs and States have to work in collaboration with each other to mobilize and find the intended beneficiary under the DDU-GKY program. An app/dashboard can be developed to aid PIA/State to find relevant beneficiaries in each district/village.

SECC datasets can be used to formulate strategies for mobilization and future training centers.

Sample Data Required: No

PARTICIPATE





Detection of plagiarism and other fraudulent activities in post Placement related documents

#MRD15

Total Submissions: 8

Project Implementing Agencies have to provide proof of placement for candidates they've trained and placed. Documents such as bank statement and payslip are some of the documents that are used as of now. A lot of documents are submitted across the country by various PIAs.

Can a computer vision algorithm be developed to detect plagiarized documents across the country?







Verification of placement status (employment type, location etc.) after a candidate is placed under DDU-GKY program

#MRD14

Total Submissions: 5

DDU-GKY is a placement linked training initiative where placement of candidates is mandatory and incentives for the project partners are aligned accordingly. Physical verification is an important factor of it in which a sample of the candidates claimed as placed are visited at their employment location and their placement is verified.

Can a technology tool/solution be developed which can aid the verification process balancing between effort taken to verify v/s veracity of the verification.

Sample Data Required: No

PARTICIPATE





Mechanism to help rural people to self select for receiving benefit offered under Govt. scheme.

#MRD13

Total Submissions: 34

In existing scenario, the approach followed for beneficiaries selection for various schemes is top down. All rural development programs/schemes aim at extending maximum benefits to rural poor. Assessment of eligibility is done by various officials assigned at Centre/States etc. A system is needed where the beneficiary can get selected into schemes and offer himself to tracked using unique identifier.(Biometric perhaps!!!)

Sample Data Required: Yes

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Payment process streamlining along with solution for Last mile Delivery mechanism for various programs/schemes such as PMAY(G) and MGNREGS

#MRD12

Total Submissions: 7

The existing payment process (release of funds) to beneficiaries is cumbersome, with long delays and turn around time, incorrectness in transactions, inclusive of various issues and inefficient in terms of exchange of information between participative intermediaries.



Real time visualization of location wise financial transactions (volume and amount) for various schemes [such as PMAY(G), MGNREGS, PMGSY, NRLM, DDU-GKY]

#MRD11 Total Submissions : 6

As part of various rural development schemes, financial support is provided to beneficiary in which funds are transferred to various beneficiaries. Some locations or areas have high transactions (volume, amount) and some have low financial transactions recorded.

An automated system is required which can act as repository for all information and visualize location wise transactions happening. This would help the MoRD, DFS, banks/FIs etc.(participating stakeholders in schemes) to visualize the level of transactional load area wise and help them in making location specific decisions (such as installing branches, ATMs, BCs in areas with low penetration having large transaction volumes)

Sample Data Required: Yes

Status of Statewise Allocation, Release and Expenditure under National Rural Livelihoods Mission (NRLM) during 2013 to 2016 (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
Physical and Financial Progress under National Rural Livelihoods Mission (NRLM) as on 31.07.2015	https://data.gov.in/catalog/physical-and-financial-progress-under- national-rural-livelihoods-mission-nrlm
Funds released to States under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) – 2015-16 (till 26/11/2015) (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
State-wise payment due under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) – 2015-16 (till 27/11/2015) (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
State-UT-wise details of amount released under the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) from 2012 to 2015 (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237

Availability of Funds for Maintenance under PMGSY and Bharat Nirman – (2004-07) Based on Sample Survey 2010

https://data.gov.in/catalog/availability-funds-maintenance-under-pmgsy-and-bharat-nirman-based-sample-survey

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Alignment between various location structures and common location mapping between SECC, LGD and various applicable schemes

#MRD10

Total Submissions: 3

Various locational hierarchy, structure are being followed across different divisions such as LGD, SECC and other independent programs in the ministry. There is mismatch in the no of locations (districts, sub-districts, villages etc.), so a solution is needed which can bring all programs mapped on to a common aligned centralized location structure to facilitate interoperability.

Also, the process of any new addition/update in existing structure for all schemes in scope such as PMAY(G), MGNREGS, SECC etc. should go through a common centralized update framework, only after approval which will then be reflected in the centralized locational database (LGD).

Sample Data Required: Yes

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A one stop source of Information interface with visualization display of performances, key indicators and other relevant statistics for schemes under MoRD

#MRD9 Total Submissions : 8

There are many programs/schemes which fall under the department of rural development umbrella including programs such as PMAY, MGNREGS, PMGSY, SAGY, DDU-GKY etc. To see any scheme's performance or achievements or areas of weak performance, there is no single platform available where Secretary or a minister can actively check the collective performance of all schemes and correspondingly be aware at all times and accordingly take decisions/actions.

A platform/dashboard or mechanism using which Secretary /minister can have access to all schemes' performance based on specific parameters with limited dependency on contacting individual specific departments or involving manual interactions.

Sample Data Required: Yes

Details of central assistance sanctioned and released under Pradhan

https://data.gov.in/catalog/answers-data-rajya-sabha-questions-

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Number of Juseholds demanded and employment provided under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) from 2009-10 to 2015-16(From : Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-239
Funds released to States under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) – 2015-16 (till 26/11/2015) (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
State-wise payment due under Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) – 2015-16 (till 27/11/2015) (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
State-UT-wise details of amount released under the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) from 2012 to 2015 (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
Financial Progress of PMGSY (as on 31 March, 2012)	https://data.gov.in/catalog/financial-progress-pmgsy
Physical Progress Of PMGSY As On 31 March, 2012	https://data.gov.in/catalog/physical-progress-pmgsy
District wise Physical Performance of Rural Road Scheme under PMGSY during the period of 2000-01 to 2004-05 – Based on Sample Survey 2010	https://data.gov.in/catalog/district-wise-physical-performance-rural-road-scheme-under-pmgsy-based-sample-survey
Availability of Funds for Maintenance under PMGSY and Bharat Nirman – (2000-07) – Based on Sample Survey 2010	https://data.gov.in/catalog/availability-funds-maintenance-under-pmgsy-and-bharat-nirman-based-sample-survey
Total number of active DDU-GKY training centres as on 26th November 2015 (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
Status of Statewise Allocation, Release and Expenditure under National Rural Livelihoods Mission (NRLM) during 2013 to 2016 (From :Ministry of Rural Development)	https://data.gov.in/catalog/answers-data-rajya-sabha-questions-session-237
Physical and Financial Progress under National Rural Livelihoods Mission (NRLM) as on 31.07.2015	https://data.gov.in/catalog/physical-and-financial-progress-under- national-rural-livelihoods-mission-nrlm







System to auto – evaluate and assess the work completed for a particular work (in progress) and eliminate need for physical verification of work being completed

#MRD8 Total Submissions: 16

Currently, an inspection officer has to make a visit and evaluate the work done by measuring/confirming the work level completed against standards or set level indicators (showing completion levels) and correspondingly the work completion is determined and confirmed. Basis on which the wages of workers are evaluated and payments are released.

A system is required where no special trip to be made is required by an official at ground level, rather official present at work location can directly click photo of completed work and upload in a system designed, where this system can then scan, perform analysis and assess (automatically) and provide the work completion details (measurements) by matching the level and other stats to work details already prepopulated in that system under different works.

Sample Data Required: No

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Algorithm/Mechanism for analyzing and estimating % match level for similar data column/s values (e.g. Name) in multiple DBs (e.g.: MGNREGS and AADHAR)

#MRD7 Total Submissions: 10

Consolidation of multiple Govt. programs implies an individual be uniquely identified in all DBs. To uniquely identify, a location address is provided (e.g. a village name) and then other details such as name, DOB, Mother's, Father's name etc. The name itself might not be same in all and can have variations in other DBs such as (Name – Raam, Ram, Rama), (Father's Name – Shyam, Syam, Sham etc.). Algorithm is required such that inference can be drawn as to what percent the field value is matching between entries in other DBs. This will help estimating the overall variation % of field values in other DBs and the accuracy level if these programs are to be converged with each other.

Initially it can be one field, then can be extended to combination of multiple fields etc. Due to large volume of data, initially a sample size can be determined and taken to calculate the match.

Sample data required: No





Mechanism to effectively track and capture Attendance on work sites for MGNKEGS workers using IKIS based attendance monitoring system

Total Submissions: 29

The existing process of registering attendance for MGNREGS workers includes major challenges such as manual tracking and capturing of attendance on muster rolls and lack of authenticity.

A solution is required to streamline the attendance tracking process and introduce automation in system with ease of implementation, high accuracy and process effectiveness. An IRIS based attendance capture and monitor system to be created using IRIS recognition technology. The attendance of worker will be recorded using the IRIS recognition system which will be installed on the official's phone and only after the IRIS details of the workers are captured, uploaded, scanned and validated, attendance will be recorded.

Sample Data Required: No

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<u>Develop a system that enables any person in rural area to proactively demand for work required to be done (under MGNREGS recognized work classifications)</u>

#MRD5 Total Submissions: 26

Under MGNREGS program, any person holding a NREGA job card can directly demand for a work to be allocated to him, in return he is paid daily wages on the basis of work done. He might need to personally travel or submit applications through the workers module in NregaSoft software via the website. These methods are time consuming, difficult to access in rural areas and not much user friendly.

A provision/system/mobile App is needed such that the person can directly provide an interest/application for work to be allocated to him through a mobile interface enabling ease of access and submission of work demands, along with real time provision for submission for applications from anyplace along with tracking of his request status. An auto acknowledgement of work should also get generated.

Sample Data Required: No

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Procedure to self verify, update/correct individual details captured during earlier surveys for PMAY(G) program

#MRD4 Total Submissions : 12

Currently, beneficiaries are identified, selected and registered after passing the eligibility criteria defined for PMAY(G) program from the SECC list. Since these details were collected over a period of time, there is a possibility that the details of the individuals may have changed.



a review (verification) by official thereby limiting official's intervention.

System of System

Sample Data Required: No

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Multi Hazard visualization as per location selected by Individual

#MRD3 Total Submissions: 19

Each and every regions is affected with natural calamities, disasters etc. Region wise repository and visualization is needed such that if a person selects a particular area, he is able to know what kind of disasters, calamities etc. that region is prone to, for helping in selection of a type of house to be built and with the necessary precautions.

Sample Data Required: No

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<u>Provide easy and real time access of information on housing typologies for area selected by Individuals for House construction.</u>

#MRD2 Total Submissions: 10

Various types of housing typologies have been developed to assist and help individuals in house construction as per locally relevant designs and materials. Each area has certain characteristics regarding weather experienced, nature of land (flat, hilly regions etc.), exposure to natural hazard etc. Housing typologies define how the house is to be constructed, technology to be used, what materials can be used, the shape and look of house etc. which is suited best to withstand the weather and hazard in that particular region/area.

The housing typologies are limited to the access via a website (RHKN) only. Provision is needed such that all typologies are easily accessible and available on the run to any individual who wants to understand/gain knowledge on the housing typologies, house designs and construction for any location.

Sample Data Required: Yes

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