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Research on the Current State of Digital Transformation to Develop Smart Agriculture in Hanoi City

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Abstract

In context scene position gender in progress opposite to face with much challenge awake whole bridge like problem subject pandemic disease, pulse sudden land main treatment, love status dry exhausted talent original Heaven however, narrow area product way work hot go up belong to left land, invasion enter salty ... Move change number To be prize France living still give all background terrible economy end push application use progress set of science Technically technique in the branch terrible economy speak shared and agriculture career speak private To be very need set. In those year near the here, industry agriculture career Vietnam

continues custom release develop chief about rule tissue and program degree product output, pressure use labour turmeric fairy progress, only maintain increase growth at tall, strong determine taste position mandarin important, is pillar support belong to background terrible economy, protection sure steady sure security wage real country family. article newspaper stool product real status release develop agriculture career information bright above land table wall Hanoi street and give go out one number prize France increase strong transfer change number agriculture career.

Keywords: Transfer Change Number, Agriculture Career Information Minh, Nong Career Dollar Market

1. Introduction

Problem subject about people number, matter release develop dollar market fast fast Have body make give job product export wage real, real product meet much difficult towel because area product agriculture career bag collect narrow. Many wall street above position gender Satisfied and in progress turn to history use labour turmeric number to release develop agriculture career information bright to prize decide problem subject sure security wage real, application Deputy with variable change gas after, create Are not space green, no gas in healthy give People people born living in area area dollar market chemical. One number tissue image agriculture career information bright release development includes agriculture career according to afternoon vertical, house glasses information bright and agriculture career based on above conclude connect ten thousands Internet of Things (IoT) fit with team sleep agriculture people young age of knowledge High Have ability power next near with labour GPS technology, management reason heat degree, system system watering water on one's own dynamic, shallow career main body, management reason data whether to Have body do variable change system system product export wage real real product transmit system.

Play develop according to afternoon vertical To be step sudden break in product export agriculture career, has 3 directions pressure use labour turmeric main To be water soup; system system soup work water product and tower soup work image This Satisfied Okay try career information I am in Singapore, tree Okay plant in the court home High floor, for profit benefit very wide, public turmeric very strong and conclude fruit good. Agriculture career according to afternoon vertical Have those profit position new, like product export tree plant around year, no lost season link mandarin arrive time drought drought, flood flood, deep disease; method France have body, no medicine kill grass, medicine apart from deep or stool fertilizer; reduce worth tell job history use of course whether dynamic muscle head private give machine pull, machine plow, transport move; cut reduce luck transfer, protect guard wage real in family paragraph from agriculture camp arrive People pepper use. In Chicago, USA, farmers camp according to afternoon vertical grow up at the area area dollar market, one number in the court home old Satisfied Okay re history use give agriculture career. Or as in New Jersey, one agricultural company career in home Satisfied real presently plan plan sudden break equal one page camp according to afternoon vertical 78,000 meters wide square, 12

floors vegetable lettuce leaf red, cabbage curly, kale chips. And the type vegetable other. Benefits benefit big best belong to soup work according to afternoon vertical To be tell exist water. System system water soup and gas sou only bow grant quantity water fit enough and Okay week complete ask for a favor system average, the page camp and river glasses in home history use little water than little at least 70% compared to the awake plant vegetable transmit system. Face other, cost luck transfer Have body easy easy more than, should product product vegetable When arrive People pepper use still will still hold degree fresh original, little bag cancel Go broken broken.

Beside edge there, move change number To be key lock transfer change the tissue image terrible business, product export and way awake manage reason terrible business transmit system to image awake manage reason information bright more than. Move change number agriculture career To be too program application use the labour turmeric Technically technique number from product export arrive regime variable, division distribute, consume receiver product product agriculture career, pressure use the labour turmeric Technically technique number (data) whether big, electric maths group cloud, internet of things object...) into whole set active dynamic belong to industry, do replace change the awake manage reason, product export and pepper receiver product product from transmit present grand and information smart. Profit benefit but transfer change number bring again enter region big like section save cost, increase power capacity, quality quantity product product, discount core work. Transfer change number help reduce minimum risk wrong harm caused by mutation change gas after, help agriculture people conclude connect direct next with People pepper use. According to the report fox by Microsoft and IDG for see, in 3 year cycle up to 85% of the work job will Right replace change chemical; in there is 32 % of the work job claim ask People labor dynamic Right Okay dig create lift High Technically power number then new do job again; 26% of the work job new create go out ask for a favor transfer change number (specialized) family stool product data material, specialist AI); and Have up to 27% of work job will variable loss due to action dynamic belong to transfer change number ... Although however, too program transfer change number still meet much difficult towel application scientific application labour turmeric enter product export terrible business still much limit mechanism. Original core is due to most run out of the business career fit and small still Have heart reason hesitate replace change, reserve reserved before road way new, already familiar with those image awake goalkeeper labour cumbersome check lack deficit about source core force number Have enough ability power and ants awake to real presently and manage reason luck onion tissue image transfer change number. Out out, problem subject about cost also very worth mandarin heart opposite to with business career not yet body receive Okay profit benefit talent main collect about When pressure use tissue image terrible business new, they fear Right cancel one expense head private But Are not carry again conclude fruit like period hope.

Farming career information bright To be active dynamic product export agriculture career pressure use labour turmeric High like the active dynamic muscle gender chemical, self dynamic chemical...; work turmeric product export and tell manage product safe product according to direction France have mechanism, GAP standard ...; work

turmeric manage reason, receive area product product according to chain price treat,... attach with system system mind wisdom core create, work turmeric information to dark advantage chemical rule program product export. Agriculture career information bright bring again very much profit benefit such as: Reduce costs general, lift High matter quantity and product quantity product product, increase strong calculate durable steady and reform good spread test belong to People pepper use; lift High ability power check control product export and reduce forget fee; self dynamic chemical check control Good rule progress, increase effect fruit product export; help manage reason attend newspaper soft bridge one way main body and give product product go out market school correct time point. Farm career information bright To be wall to sue mandarin weight belong to agriculture career dollar market, special special opposite to with wall Hanoi street in soy sauce hybrid. Agriculture career dollar market To be agriculture career Multi function power like bow application real product, supply grant flower tree scene, create Are not space Green. Hanoi To be type dollar market special separate, dual agriculture career still hold shoulder game run out of strength mandarin important Among 30 districts, towns and cities commune belong to wall street, still 17 districts and 1 town left commune and 6 districts Have product export agriculture career. By so, shallow career still To be branch advantage fairy in war comb release develop terrible social festival belong to wall street in central limit also like long deadline. On March 17, 2021, the Hanoi Party Committee issued Chapter program No. 04-CTr/TU, About job push strong villa presently effect fruit Chapter program item pepper country family build build agriculture village new attach with muscle structure again branch agriculture career and release develop terrible economy agriculture village, raise High life living object substance god belong to agriculture people stage period 2021-2025, in there body To: 2025, Hanoi Have billion rate price treat product product agriculture career labour turmeric High reach 70%; push strong muscle structure again branch agriculture career attach immediately with release develop agriculture village, build build agriculture village new, direction next release develop agriculture career information smart, public turmeric high, association enter country delicate, like application with variable change gas back, lift High price treat family increase and release develop durable firm; solid determine muscle structure again agriculture career To be background keystone, build build agriculture village new base village people To be owner can...

2. Development status develop agriculture career information bright above land table wall Hanoi street

Hanoi City so far about 198,000 hectares of land agriculture career with 285 models image product export agriculture career application use labour turmeric High in there There are 185 models. Image belong field area plant cultivation, 45 m image about blanket culture, 54 models image belong field area water product and 1 model image conclude fit plant cultivate and blanket raise. Price treat product product agriculture career labour turmeric High occupy about 40% of total price treat product export agriculture career belong to wall street. In which, public art, design bag choose select application use owner weak To be help job manage reason information verify control lip school product export help reduce core labour labor move, increase matter quantity and

product quantity agriculture product. With over 10 million People, Hanoi in progress act go out too program dollar market chemical strong strong, already and in progress put go out problem subject grant design Right release develop one background agriculture career fit Have calculate matter dollar market fit shop near with those prize France labour turmeric information bright, born state to lift High price treat product export above area product tight narrow, create Are not space green give dollar market, end use market school in place, increase collect equal conclude tourist complex. Hanoi city There are 11 pages. camp and 4 combinations work commune conclude fit release develop agriculture career born state with travel to collect suck guest arrive Reference view test do rich more ants awake living and Okay on one's own hand collect pick, reward sightseeing those product product belong to land direction.

Special point belong to product export agriculture career Head dollar

Arrive 2022, Hanoi Have area product on one's own natural 3,359.82Km² and over 8.53 million people in there people rural number village accounting for 50.9%. Hanoi There are 12 districts and 17 counties. and 1 market communes; including 175 wards, 21 towns town and 383 communes. With number district commune and people number agriculture village rather big; develop develop agriculture industry, agriculture village and reform good life living agriculture people always To be duty service weight heart belong to chief wall street taste mind land reason favorable benefit, have potential power release tourism development born state conclude fit together price treat literature chemical belong to the village profession, agriculture Hanoi Industry Have body create Okay dynamic force mandarin weight to release develop terrible economy commune festival Head dollar.

Area product land agriculture career belong to wall street Have over 197,793 hectares, accounting for 58.9% of the area product natural, earth forest forest industry 6.1 %, raising plant water 4.5% of land and property agriculture career other about 2%, End 2022, production export agriculture career accounting for 2.3% of total product products (GRDP) on land table, new answer application Okay from 30% to 65% of demand bridge wage real real product belong to resident people wall street status release develop give see, become street still much potential power to release develop background agriculture career to worthy range with shoulder game and taste mind Head dollar.

After more than 10 years real presently chapter program build build agriculture village new, shallow Hanoi village Satisfied start color. Conclusion structure lower floor Okay lift level; experience economy agriculture village release develop strong, lips school Have those transfer variable product extreme; life living object substance god belong to People people Okay lift high; many place Satisfied return wall those village countryside worth living with 382/382 communes Okay labour receive obtain standard agriculture village new, have collect enter jar army head People increase from 15.7 million (2010) to 59.4 million VND (2022) and billion rate household poor reduce from 1.25% down 0.37 % left 2020.

The only religion copper set of the City Party Committee, People's Council, People's Committee together with the lead religion tight tight belong to the district, commune and the enter life decide paralysis belong to all floor class people resident, farmer Hanoi village Satisfied Have those wall

great work, bring Head dollar return wall one in those land direction guide head chief water in life luck dynamic build build agriculture village new.

By Chapter Report 04-CTr/ TU of Hanoi Party Committee about " Push strong real presently effect fruit Chapter program item pepper country family Build build agriculture village new attach with muscle structure again branch agriculture career and release develop terrible economy agriculture village, raise High life living object substance god belong to agriculture people, real presently Resolution Decision belong to Festival People's Council, City People's Committee street and the plan plan onion winter tool body; industry agriculture career Head dollar Satisfied build build Subject sentence release develop agriculture career Dollar market (agricultural) career dollar market) in stage paragraph from 2022 to 2026. Subject sentence Satisfied practice central enter fight price real status and subject export the prize France real presently opposite to with the opposite to statue business career, cooperation work commune, union union fit work commune, group fit work, medium heart pandemic case; household family family, fish core direct next active dynamic product produce, do pandemic service agriculture career and the muscle mandarin manage reason, organization function Have link mandarin.

Farming career dollar market and image enjoy belong to soft bridge release develop Head dollar

Are not space agriculture career dollar market Have body stool into 3 regions according to special point belong to dollar market chemical. That To be region agriculture village edge dollars, dollars market edge dollar and region internal dollars. In the fraction product release develop agriculture career dollar market edge dollars; the home research rescue give that, agriculture career of Hanoi, Hai Phong Room and much wall streets in our country usually release develop according to tissue 3- ring shape belt, including rim band agriculture career specialized farming career Multi form chemical and agriculture career prefer response.

People Hanoi number family increase fast Satisfied bounce worry about bow grant wage do position any keep safe wage real durable steady but Are not cause danger harm talent original lip school... is problem subject big put go out.

When the land agriculture career belong right manage reason belong to main right dollar town, land agriculture career Okay deliver give home head private, agricultural people lost land soup work. Face other, land agriculture career fragile want, no immediately circuit should job open wide soup work and head private product export big meet much difficult agricultural cooperatives career prize body or stop active dynamic guide arrive land band bag cancel wild chemical. With limit regime about year old work degree learn problem and Technically power do work, farm people difficult Have muscle festival find sword job do. In push fast dollar market chemical; agricultural career dollar market hold shoulder game mandarin weight to sure tell born plan and job do give people poor dollar market.

Real needs safe products " day " one family increase, but household product export small, no Have direction convenient or Not yet Okay dig create Technically technique to answer application the Love bridge about real safe products. More more, people number dollar market increase fast still drag according to those problem subject bounce born like pollution source water, no gas and problem

subject lip school day more return should serious important agriculture career dollar market Are not only hold shoulder game mandarin weight in war comb durable steady born design, create source GDP based revenue above price treat family increase from land agriculture career but still Okay see To be direction Go ability for to prize decide those any access link mandarin arrive too program dollar market chemical as security wage real and lip school, direction next build build dollar market born state and scene mandarin durable steady in soy sauce hybrid.

Play develop agriculture career dollar market will each step replace change receive awake belong to People people from product export agriculture career according to direction awake transmit production system export agriculture product row chemical, application use progress science department Technically technique and direction France soup work new according to direction born durable stable, safe born learn, reduce minimum work pollution, improvement good lip school and scene mandarin dollar market. agriculture career dollar market close contribute mandarin weight enter war comb dollar market chemical green, pine bright and durable steady develop agriculture career dollar market product export product product matter quantity, guarantee tell guard safe birth real product, security Palace nourish, lift High strength Strong add copper; guarantee tell Are not only release develop background agriculture career whole area, cover but still tell exist Okay the genus, species tree plant and object feed.

Above mandarin point belong to system system wage real real product (salary) real real durable steady, Hanoi still much difficult towel in stool coordinate and pepper use agriculture product real product. Too program dollar market chemical work dynamic strong next the Multi form, secret degree and about way belong to the point bow grant real products. point sell real product in dollar market claim ask Multi form than much more than agriculture village. people pepper use (people) pepper use) dollars market next near real product through place sell real product like the market transmit system, point sell real product presently big, the super market and chain door row convenient benefit. need pepper use belong to dollar market Are not only extra belong enter calculate matter season service and regime degree eat belong to People pepper use but still Have more real product imported from water outside. people people dollar market hold shoulder game mandarin weight in decide determine choose select real product pepper use.

In those decade century near the here, safe real product Satisfied return wall problem subject mandarin heart row head. Vietnam stands 13th in number those water Have much wrong violation about safety real Product. Research rescue near the This Satisfied only out, 89% of people pepper use position gender in progress pepper receiver real product unsafe. Level degree dollar market chemical fast Satisfied create pressure force big next bow grant real product transmit system history use too level head enter give product export agriculture career like abuse use matter resistance birth, medicine apart from deep, dung Fertilize chemical learn and check control liquid loose or enter mouth smuggled; missing access export source origin To be those work core cause unsafe real product. Here also To be challenge awake big in real onion product export belong to the home product export rule tissue still small.

Hanoi Have system system real product Multi form with much choose select other each other between the region

domain, group people race, spirit after and season case. While paddy rice To be real product main, then office prefer and way choose select day more replace change; meat pig increase fast in those year near the This and pepper receiver the type vegetable green return should enter together mandarin important umbrella product product milk Are not Right To be real product Okay like prefer in regime degree eat transmit tradition, but trend pepper use again day more open wide. choose select real product full enough Palace nourish and real product Have smell taste tasty and steam guide day one family increase. Department prefer choose select real product Have the replace change and other each other between the position system. In which, gender young tend to prefer pepper receiver real product presently grand Have source origin from direction West, still People big year old again prefer pepper receiver real product transmit system. consumer behavior use direction to " eat " tasty mouth more than " already image enjoy big next matter quantity meal eat in short and long deadline.

Eat drink beside outside household family wait day more return should universal change. person pepper use choose select eat beside outside because favorable reason convenient, economical save time space give cook grill and cost cheap than buy thing eat to cook grill in home. war comb release develop agriculture career agriculture village durable steady by 2030 and range look 2045 body determine clear determine direction agriculture career born With Hanoi, Law Head dollar fix change Satisfied body determine range look dollar market born durable steady, and affirm determine clear shoulder game belong to agriculture career dollar market.

To obtain Okay item pepper release develop durable firm, attached product export Farming career with bow application and pepper use wage real real product, Government cover issued Plan plan onion dynamic country family Transfer change system system wage real real product bright white, blame duty and durable steady arrive 2030 (Decision) 300 dated March 28). Accordingly, rule determine Transfer change system system wage real real product To be duty service link branch with the enter life belong to all work core in whole system system, is real presently copper time in many grant from Central next land direction below the supervisor close onion system best and through throughout belong to Main government build subject sentence Play develop agriculture career dollar market according to direction product fit real presently Plan plan onion dynamic country family To be Have muscle office France reason and real farewell in the capital dollar.

Build build agriculture career dollar exam from corner look research rescue

Agriculture career dollar market or information bright still call To be agriculture career main body with item pepper do give job soup work agriculture career effect result, by Okay check control cut tight and carry again profit profit High in plant farming, husbandry feed family cattle and feed plant water product.

Item pepper belong to chapter program agriculture career information bright to release develop and love trade chemical those labour turmeric main body; develop source core force matter quantity High in agriculture industry; through the chapter program research save, increase strong conclude connect with the nest function inside, outside water; development develop link conclude with branch labour career to next near, move deliver labour technology,

development develop Technically power and pandemic service add copper. agriculture career dollar market information bright still To be a trend new to sure safety wage real real product give dollar market. In our country, although Satisfied export presently agriculture career information I know, but rule tissue small and seems like Not yet Have tissue image complete adjust.

By group function Play United Nations Development Program Quoc (UNDP1996), "agriculture career dollar market To be active dynamic product export the type real product and product product agriculture career based on above Fund land and source water in the area area dollar market ". Activity dynamic This use direction France product export specialized soup, history use original whether on one's own nature urban waste market and practice central owner weak enter release develop product export agriculture career durable steady.

Near the here, the trend release develop agriculture career dollar market Satisfied Okay look receive whole area and system system more. Network net Farming career Dollar market Position gender determine meaning, " farm " career dollar market To be branch product export variable and next market real product, nature whether and the product product head go out to answer application soft bridge row day belong to People pepper use in the market town street or dollar market.

According to the concept think belong to Network net specialized subject soup work information bright continent Europe, " soup work information bright To be application use labour turmeric current information ICT in agriculture career. life way network This coordinate ICT integration with those design bag main to conclude connect ten thousands things (IoT), sensors variable, definition taste whole bridge, management reason data whether Big data, design fly away People drone, person machine (robot)..., create thing case give People people increase more price treat and give go out those decide determine declare waterfall, management reason effect fruit than.

Agriculture career dollar market Have special point To be nest function product export in Are not space small and little land soup author. Close contribute belong to agriculture career dollar market opposite to with life living people resident extra belong enter those favorable profit and difficult towel tell and receive awake about check control close risk. Compared to agriculture career transmit agriculture career dollar market Have profit position edge painting best define special Have body bow grant give the market school dollar market those product product have cost cheap, included all costs lip school. Although background agriculture career This again Are not edge painting with agriculture industry in the region agriculture village, but practice central owner weak enter those active dynamic Have profit so, most To be bow grant agriculture product give resident people wall street.

To be background product export agriculture career Multi function energy, agriculture career dollar market hold shoulder game create scene mandarin dollar market and reform good strength Strong add copper; contribute part bow application wage real real product fresh living in place give the dollar market. agriculture career dollar market Have ability power prize decide Okay the problem subject difficult towel belong to resident people wall market and special separate, that To be prize France ability exam give dollar market information open, a close contribute enter those

effort force build build muscle office lower floor green, create source wage real real safe products export flower tree scene and create Multi form job do.

Those wall street real the mandarin heart temple release develop agriculture career dollar market, have body on one's own answer application up to 100% demand bridge agriculture product fresh live use floor roof in New York (USA) has body increase urgent pair Are not space need design to bow grant vegetable green give whole city; planting tree green in the city street Have body reduce Okay worth tell quantity garbage waste real product.

To be one system system complex miscellaneous, shallow career dollar market includes core core transmit system link mandarin arrive product export change, continue market, distribution coordinate and pepper use agriculture product. morning ants rule plan and design plan presently big, answer application Love bridge belong to tissue image agriculture career dollar market edema fit with design plan durable steady often attach with the decide determine main book to build build the wall street presently big.continue near real product rich Palace nourish, is the other special in those effort force to determine taste product export wage real and blanket raised in the wall street.

Area area dollar market in progress Right opposite to face with security wage real still much limit usually based on enter awake eat fast through mode variable or the door row convenient profit Have jaw high calorie and little matter Palace nourishing, easy guide arrive sick disability link mandarin arrive regime degree eat drink. Movement do garden in the add copper Satisfied open go out give labour they muscle festival and bow grant Are not space give People people plant tree do real product or prize mind in the dollar market.

Plant tree long year Satisfied image great benefit in time period serve excited belong to agriculture career. Those 1960, many area garden add copper Satisfied Okay build build; those page camp agriculture career head fairy Okay wall set up enter 1972 in the city street Wheel Don (England) has conclude fit blanket feed dynamic object with Are not space do garden, create the complementary each other. In Australia, many page camp wall street Satisfied exist in much year in heart the dollar market. In Melbourne, the site Collingwood camp set up 1979 on Abbotsford Precinct Heritage Area (APHF) out life enter 1838, union custom To be those page camp wall street long life best of Victoria.

Agriculture career dollar market edema fit with Hanoi To be branch terrible economy total combination, including chief active dynamic product export variable and bow application pandemic service about vegetables, flowers, fruits, carpets green real object, tree landscape, tree page mind, tree medicine material, tree plant agriculture career and born object have benefit other; those page camp This use direction France soup work have mechanism, work turmeric main body and prize France Technically technique transmit system conclude fit with presently grand.

Agriculture career dollar market bow grant wage real real product fresh live, create Are not space green, reduce language noise and effect application home glass; copper time ants create scene mandarin ants bamboo lip school, no space letters stretch, care squirrel strength healthy, contribute part lift High life living object matter and pure god give People people dollar market.

In the rules plan history use land Have concept think Are not space agriculture career dollar market. here To be place contain all active dynamic agriculture career, is one Are not space Multi function ability. no space dollar market includes the weak to sue belong to agriculture career dollar market, have body understand there To be Are not space included chief object body ants bamboo, tree green, face water and active dynamic blanket feed plant cultivate prefer fit in lip school dollar market and Have work dynamic direct next arrive scene official space agriculture career dollar market includes scene mandarin dollar market transmit system and dollar market product export faction born. Almost run out of reason theory release develop dollar market even look receive agriculture career dollar market with shoulder game day more mandarin weight in rule plan build build release develop durable steady, according to direction born decrease reduce pollution, improve good lip school, family increase scene mandarin and increase effect fruit history use land band dollar market.

Compared to agriculture career transmit agriculture career dollar profitable market side painting, especially if it can be provided grant give market those product Product includes environmental fee school at low cost. However However, it should be noted that agriculture career dollar market Are not edge painting with agriculture industry in the region agriculture village and often practice central enter those active beneficial action, especially supply grant product product fresh live, fast damaged and Are not need must go through the work processing and preservation management long long body see, shallow career dollar market to be one background product export Multi function power, close shoulder game main about bow application wage real real product, guarantee tell lip school durable steady, create much job do to lift High collect enter give People people poor dollar market.

Agriculture career dollar market information bright to be a trend new to sure safety wage real real product give dollar market. In our country, although Satisfied export presently agriculture career information I know, but rule tissue small and seems like Not yet Have tissue image complete Adjust. pressure use agriculture career dollar market information bright still much difficult towel, challenge knowledge, like: Lack the research rescue about the tissue image manage treat number to design plan those background block part soft edema fit with soft bridge belong to the chain price treatment; mechanism office data whether number serve service agriculture career still dissipation romantic, not yet Okay design plan and number chemical copper set.

Ability power bow application labour turmeric give agriculture career information bright still much limit regime. The medium sized company and small often history use the prize France private odd, missing the conclude connect in thing case market school machine hook, set bag agriculture career Not yet release development, ratio rate on one's own dynamic chemical Not yet High and best To be product product agriculture career information bright Not yet copper set or difficult deliver next. Out output head private give agriculture career labour turmeric High and agriculture career information bright big than much more than agriculture career transmit multi number household family family Are not enough thing case head private.

Labour work research rescue application use, transfer science communication Technically technique Not yet according to in time real farewell Love bridge product

export; the pepper will about agriculture career information bright together with the rule standard standard program product export give each opposite to statue tree plant, plant feed Not yet complete good. Face other, source echo book home water and capital credit use head private enter release develop agriculture career information bright still limit regime; government book support support Not yet Okay build build and issue in time time; not yet Have advantage treat about credit use and land band give release develop type image agriculture career This.

Play develop Farming career dollar market and job Cloud use above land Hanoi table

Have much image awake release develop agriculture career dollar market; it includes chief soup work above face land, on roof house, water watch, house glasses and those labour turmeric other. Agriculture career dollar market Have potential power product export wage real, special special To be those type product product easy broken and has high value. In addition out, day more Have much termites mandarin heart arrive soup work rule tissue love trade type tree planting real like plant flower or end use Are not space plant tree above the picture wall wall street. In many place, farm career dollar market Satisfied close shoulder key role opposite to with security wage real and Okay release develop strong in those wall street information I. Here. To be problem subject mandarin system honey design with terrible economy, culture chemistry, science and labour turmeric.

Compared to those active dynamic agriculture career other, farm career dollar market history use much capital, mechanism office object quality, work turmeric and labor move; get give To be background agriculture career labour career chemical, have body end use market school to release develop network net information and deliver inform, urge push product export agriculture career and love trade link rural area career dollar market release develop durable steady need according to way next near link industry. This To be way do mandarin weight to obtain got 17 items pepper release develop durable steady enter United Nations 2030 Country.

Dollar market big Have much risk round about security wage real real product, due to lack of conclude connect bow bridge. System wage real real product active dynamic efficiency is structure part mandarin weight belong to background terrible numb, it Right become thirsty hope clear belong to the wall ability dynamic and is the main content in rule plan and main book measure, need Okay the grant lead religion special special mandarin heart.

In many country family, salary real real product is one in those main book and management of time weight. On whole Asia, government book wage real long time Okay considered the duty of the farm bug career. On real industry agriculture career Satisfied practice central enter increase strong product export agriculture career, urge push release develop terrible economy agriculture village and reality presently item security wage real country family. Look common, area area have you measured it yet ? Okay mention much in the rule plan agriculture career or talent original Heaven of course.

Play develop I 'm safe whole real product whole bridge give see, system wage real real product presently Okay multiple agencies other each other prize decided, but Have little coordination match learn terrible test withdraw go out in manage that is, the house rules plan and plan determine

main book measure it prize decide too much problem inside the wall development develop fast should much wall the city is Right opposite to face with row series challenge awake link mandarin arrive development develop Are not according to rule plan, including chief blocked congestion deliver communication, pollution Are not when, product nature waste solid, infrastructure object matter least release develop, also need least about health, education sex and the service.

According to the newspaper fox belong to Department Farming career and Play develop agriculture village, Hanoi There are 11 rules. Plan link mandarin arrive agriculture career, but part big Satisfied bag variable change and Right thing speed control degree release develop dollar market chemical too fast, already break broken Are not space agriculture career to yield place give the area housing and lower floor dollar market. This is the challenge. The residents Satisfied go up language Love bridge need solution France and the coordinate fit link industry.

To overcome the difficult towel, challenge awake to obtain Okay the profit huge benefits due to transfer change number and agriculture career information I, the home chalk product give that, need develop declare do Good one number prize France below This:

Recommendation encourage release develop agriculture career information bright above muscle office research rescue market school and soft bridge belong to resident people dollar market. Government cover need to issue those main book edema fit with real farewell product export calculate ability exam to medal dynamic Good source force to real presently way network agriculture career information head private labour turmeric edema fit with dollar market to create born gas new with those tissue image agriculture career information product product agriculture product toxic safe and Have ability power edge painting High.

Set Farming career and Play develop agriculture village need coordinate fit cut tight with Ministry of Information and Transmission information to build build ants bamboo total body belong to Main cover number and terrible economy number in branch agriculture karma, body determine clear soft bridge pandemic service function power belong to the household agriculture people small, page camp, union work commune, enterprise career agriculture career to design plan background block number practice central and frame muscle office data whether number give agriculture career copper set between the group branch according to muscle structure nest function system best from central nursery arrive the land direction.

Need Have head termites practice central to design plan structure bamboo system system labour turmeric information, avoid presently statue on one's own release When Not yet Have the pepper standard conclude connect shared.

Increase strong dig create source core force, special special To be core force matter quantity High to owner dynamic in too program next near agriculture career information bright.

Exhibition declare build build, collect decade muscle office data whether direct line about agriculture career according to direction, product fit and copper set.

Recommendation encourage business career labour turmeric number head private serve service agriculture industry. Accordingly, it is necessary to notice labour turmeric on one's own dynamic chemical in product export agriculture career edema fit with household agriculture people small,

attached with background block access export source origin To be those field area need advantage fairy to Have body application use Okay right now.

Push push research rescue and change new bright create about agriculture career information Minh, Dong time open wide fit work country economy to next collect the labour turmeric and, method awake manage treat number edema fit to section save time time, increase power rate labor move, carry again effect fruit High than.

3. Smart agriculture in the field of cultivation

Hanoi City has currently implemented many smart agricultural models with different scales such as: Organic agriculture model and good agricultural practices (GAP); integrated pest management model (IPM); sustainable rice intensive farming model (SRI); crop and livestock farming model (rice-fish); agricultural model combined with eco-tourism... Applying GAP to cultivation in Hanoi has a fairly high growth rate in both area and output. According to statistics in 2023, Hanoi City has organized the implementation of 18 models of organic agricultural extension and organic agricultural production; 3 organic rice production areas with an area of 70 hectares; 1 organic fruit growing area with an area of 5 hectares; 23 establishments have been granted certificates of organic conversion production areas with an area of 242.7 hectares; 12 facilities were officially certified as organic agricultural production areas with a total area of 69.5 hectares.

In the field of cultivation, Hanoi has applied the construction of greenhouses and net houses with automated systems to control irrigation systems, adjust humidity, temperature, and light; monitoring systems can analyze land, forecast productivity, detect pests and diseases. Many new digital technologies are applied such as IoT technology, soilless technology, blockchain technology, plant cell culture technology, and the use of drones in fertilizing and preventing and controlling diseases in rice.

A typical example is Dan Phuong Commune (Dan Phuong District) located along the Day River, which used to mainly grow rice and crops, but now, from afar, you can see greenhouses and net houses stretching out to grow black summer grapes. Now the grape fields have become a tourist attraction, and every visitor leaves with a bag of grapes as a gift. Tieu Tom Grape Garden is one of the famous gardens, an attractive sightseeing and experience destination for students of many schools. Currently, Dan Phuong District has only 520 hectares of rice left, the remaining 1,300 hectares of agricultural land have been converted to produce flowers, ornamental plants, fruit trees, and high-quality vegetables. The cultivation value in flower, vegetable, and ornamental plant areas reaches from 300 million VND to more than 1 billion VND/ha/year. The district is focusing on in-depth agriculture, increasing production value to ensure agricultural production output to meet the needs of the inner city.

As for Thuong Tin district, along with the application of scientific and technological achievements, the district has gradually formed concentrated production areas with large fields in the direction of high technology, with productivity, quality and products that are competitive in the market...; in which, applying digital transformation to production contributes to improving product quality, creating competitiveness, especially changing the mindset of small-scale, fragmented, inefficient production, lacking chain

linkages to advanced agriculture. Up to now, Thuong Tin district has formed 1,745 hectares of high-quality rice production areas, 545 hectares of safe vegetable production areas, 130 hectares of specialized fruit tree production areas with high economic value; 146.77 hectares of flower and ornamental plant production areas. In addition, a number of enterprises have supported farmers in implementing digital transformation solutions, solutions for agriculture applying technology (net houses, greenhouses, lighting systems, traceability, IoT...).

Ngoc Linh Valley Agricultural Ecological Zone (Thach That District) is developing in the direction of applying high technology (CNC) from Japan and Germany to agricultural production, with greenhouse models, hydroponic vegetable production, spirulina cultivation for medicinal herb extraction and vegetable cultivation combined with medicinal plants, tourism and resorts. Some cooperatives producing and consuming organic vegetables apply technology on an area of 5 hectares with an output of 3 quintals of vegetables/day, with an average monthly income of over 120 million VND, the average value/ha of cultivation is nearly 6.7 billion VND/ha. The CNC mushroom production model of Kinoko Thanh Cao Import-Export Company Limited (My Duc district) has invested nearly 70 billion VND to build a factory to produce and package clean needle mushrooms using modern Japanese technology, with a scale of more than 3,000m², an output of 30 tons/month, bringing in revenue of 1.8-2 billion VND/month. In addition, there are a number of CNC application models from abroad such as Cuoi Quy Cooperative (Dan Phuong commune, Dan Phuong district) producing according to a closed method from the inside out, the fertilizer used for vegetables is organic fertilizer, no beds, treating floating mushrooms with a gas burner, sowing seeds by machine, closing the door after sowing, keeping moist with a mist sprayer waiting for harvest. On the other hand, the greenhouse has a simple structure, no welding, no foundation, easy to install, disassemble, the process of sowing seeds from the inside out, closing the door to wait for harvest and harvesting once from the outside in, trapping insects at the 4 corners of the greenhouse roof, no need for care, vegetables are safe. The model has a simple investment but brings high economic efficiency, is easy to apply and can be easily replicated.

4. Smart agriculture in livestock and aquaculture

In the field of livestock farming, many Hanoi farmers have applied the form of raising livestock in closed barns, with cooling systems, helping to stabilize temperature, humidity, and barns; built automatic feeding and watering lines; used artificial insemination technology, sex-segregated semen, and treated the environment with advanced technology (CDM, biogas, biological bedding, biological products, etc.). Hanoi currently has 9 organic poultry farming areas, 88 VietGAP certified farms; 32 aquaculture facilities certified by VietGAP and equivalent, the area and output of aquaculture areas certified by VietGAP and equivalent is 181 ha/391 tons/year. Typically, Thuong Tin district, along with the application of high technology and digital technology to agricultural production, has built 15 high-tech agricultural models in the district; 14 livestock linkage chains, with 166 products ranked as OCOP products (One Commune One Product Program) from 3 to 4 stars, income reaching from 66-68 million VND/person/year.

The purpose of smart farming is to increase livestock productivity, reduce disease risks, and also save labor. Smart farming is supported by technologies such as the Internet of Things (IoT), sensors, and software. They allow data mining on various parameters such as temperature, humidity, ammonia levels, and feed intake, etc.

The above situation shows that the number of high-tech agricultural and smart agricultural models in Hanoi is not commensurate with the city's potential and position, especially the industrial park model serving smart agriculture. Large-scale "digital agricultural" farm, cooperative and craft village models that synchronously apply smart technology solutions along the value chain from research, selection, breeding, production organization, farming, processing, preservation and consumption... are not many; mechanisms and policies to support the development of smart agriculture are still lacking, not synchronous and not strong enough, such as investment in infrastructure for agricultural production development in localities that has not been satisfactory. There are still quite fragmented and small-scale livestock farms investing in new technologies such as automatic feeding troughs and drinking systems, ventilation systems, lighting, scales, management software and IoT. Many farmers are still unfamiliar with digital technology and tend to record data manually, so there is a need to simplify data collection and processing.

5. Solutions to enhance digital transformation to develop smart agriculture in Hanoi

Firstly, focus on promoting digital transformation and reforming administrative procedures to facilitate farmers and businesses. In particular, for farmers, administrative procedures must be simpler. There needs to be a merger between the Ministry of Agriculture and Rural Development with the Public Service Portal and the Ministry-level Electronic One-Stop Information System into a single centralized administrative procedure settlement information system of the ministry; connecting with the National Public Service Portal according to the roadmap; connecting and sharing data with the National Population Database, ensuring system safety and security; electronic identification for management. Regarding database construction, it is necessary to focus on building and standardizing industry data so that it is accurate, complete, updated promptly, and especially easy to understand and apply. Develop and promulgate policies on credit investment structure for high-tech agricultural development, especially research and technology transfer for production, preservation, and processing of agricultural products. In addition, there should be incentives to support loan sources for credit institutions to implement interest rate reduction policies; encourage the establishment of agricultural insurance funds, support funds for farmers, and businesses investing in high-tech agriculture.

Second, develop digital infrastructure and digital platforms in the agricultural sector, focusing on building big data systems, with priority given to rice fields, forest land, fruit trees, industrial crops, livestock and aquaculture; build an integrated aerial and ground monitoring and observation network to serve agricultural activities. At the same time, promote the provision of information on the environment, weather, and soil quality to help farmers improve crop productivity and quality, as well as support the sharing of agricultural equipment via digital platforms. Build a

database, digitize farming diaries systematically and synchronously. In addition, it is necessary to focus on technology solutions, digital transformation in management, monitoring, transparent retrieval and connection of agricultural product markets and OCOP products "One commune, one ward, one product", supporting smart farming technology to bring high economic efficiency. Collecting online agricultural databases, integrating synchronously, increasing the use of high-yield and high-quality varieties, applying mechanization, implementing advanced technical processes, and sustainable intensive farming measures. There needs to be strategic cooperation with digital technology enterprises such as VNPT, Viettel, FPT... as a driving force, creating strength to promote digital transformation. Be more proactive in perfecting and effectively organizing the implementation of mechanisms and policies to attract social resources to invest in smart agriculture.

Third, improve the quality of human resources, strengthen training for village and commune-level cadres, especially agricultural collaborators and agricultural extension workers, because this is an extension to put digital transformation applications into practice. Strengthen communication, organize training courses, and provide skills training for farmers, increase resources for building a chain from production to consumption, becoming a typical model for developing a chain of linkages nationwide. Train people to use e-commerce platforms to promote OCOP products in conjunction with the Tiktok platform to livestream to build brands, and directly sell products on platforms. In addition, it is necessary to promote and boost the consumption of agricultural products in key export markets such as China, the US, the EU, Japan and Korea. Agricultural extension work needs to focus on training skills to change digital business models for cooperatives and enterprises; building experimental digital transformation models based on a common unified platform structure... In addition, it is necessary to develop smart agriculture from the education stage, becoming a subject to train the young generation - a dynamic and creative resource but with little interest in agriculture.

Fourth, promote propaganda, dissemination and integration of the tasks of the smart agricultural development program with the socio-economic development program of the industry, locality, and national target program. In particular, build trade promotion programs with local products, promote agricultural eco-tourism combined with experience and smart consumption. Raise awareness of management subjects, farmers converting from agricultural production to agricultural economy, need to transform digitally quickly, strongly and effectively. At the same time, strengthen the organization of trade promotion programs, high-tech programs, food hygiene and safety programs, and traceability programs to raise awareness of farmers and managers. The activities of service centers supporting the transfer and management of high technology in agriculture need to develop more strongly; support the construction, development and expansion of markets, improve the quality of designs, packaging, brand building, and apply e-commerce in agricultural product consumption. Encourage people to use modern electronic devices, especially farmers; organize discussions to share experiences from farmers who have successfully transformed digitally, thereby spreading

and replicating the digital transformation program in agriculture throughout the city and neighboring areas.

6. Conclude

Developing smart agriculture and high-tech agriculture plays a decisive and key role in the circular economic development trend of the agricultural sector. Ensuring the ability to optimally use limited land resources; improving productivity and quality of agricultural products; creating competitiveness in domestic and foreign markets, raising the level of Vietnamese agricultural products in the international market, promoting trade promotion and economic development to respond to climate change.

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