BUKTI KORESPONDENSI ARTIKEL JURNAL BEREPUTASI SEBAGAI KEWJIBAN KHUSUS JABATAN FUNGSIONAL LEKTOR KEPALA

- ♦ **Judul Artikel**: Management Competency and Entrepreneurial Intention of the 60-Young Villagers in A Part of Slope of Mt. Arjuna East Java Indonesia.

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♦ Koresponden : Lasman Parulian Purba

Tahapan Korespondensi:

No	Tahapan	Tanggal	Deskripsi
1	Pengajuan Manuskrip ke Jurnal	30 September 2020	Pada 30 September 2020, mengirimkan file full paper berjudul "Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia" kepada Alamat email yang tertera pada website resmi penerbit: https://naukagor.ru/en-gb/about/editioncontacts , editor@naukagor.ru . Bukti: https://docs.google.com/document/d/1C7KgNLDOv6nfOn6VdblFtArgOQl8G6yc/edit?usp=sharing&ouid=102435822717694993254&rtpof=true&sd=true
2	Mengirimkan ulang karena tidak terdapat balasan sejak September 2020 s.d. Oktober 2020.	4 November 2020	Пересылаемое сообщение От: Валерий Хетагуров < hetag@mail.ru> Дата: 04.11.2020, 18:23 Кому: Роман Клюев < hetag@mail.ru> Тема: Статья Lasman Parulian Purba считка.docx Править С уважением Валерий Хетагуров тел. +7(8672) 407-360 тел. +7-903-484-98-63 Bukti: https://docs.google.com/document/d/1C7KgNLDOv6nfOn6VdblFtArgOQl 8G6yc/edit?usp=sharing&ouid=102435822717694993254&rtpof=true&sd=true

3	Penerimaan awal respons dari Editor / Penerbit Jurnal	5 November 2020	On Thu, Nov 5, 2020 at 10:21 PM Роман Клюев < kluev-roman@rambler.ru > wrote:
			Пересылаемое сообщение От: Валерий Хетагуров < hetag@mail.ru> Дата: 04.11.2020, 18:23 Кому: Роман Клюев < kluev-roman@rambler.ru> Тема: Статья Lasman Parulian Purba считка.docx Править С уважением Валерий Хетагуров тел. +7(8672) 407-360 тел. +7-903-484-98-63
			Bukti file: https://docs.google.com/document/d/1skHi0Mr0cKgu0NSnrGI5vAwTIV 2vQPtD/edit?usp=sharing&ouid=102435822717694993254&rtpof=true &sd=true
4	Penulis menanyakan maksud dari email sebab email balasan dan nama file pengantar berbahasa Rusia	5 November 2020	05.11.2020, 20:03, Lasman Parulian < lasman.parulian@ukdc.ac.id > Dear Роман Клюев < kluev-roman@rambler.ru > Could you please explain me what should I do with this email? Best regards, Lasman Parulian Purba
5	Respon Editor dan Penerimaan Awal atas email yang dikirimkan sebelumnya.	6 November 2025	Manuskrip telah mendapatkan komentar dari editor. On Fri, Nov 6, 2020 at 12:44 AM Роман Клюев < kluev-roman@rambler.ru> wrote: Good evening! It is necessary to add an abstract of the article of 250-300 words, reflecting the content of the article, as well as photographs of the authors.
6	Mengirimkan Revisi Abstract dan Foto dari para Penulis	7 November 2020	Best regards, Roman Klyuev, Deputy Editor-in-Chief On Sat, Nov 7, 2020 at 12:32 PM Lasman Parulian lasman.parulian@ukdc.ac.id wrote: Dear Roman Klyuev, Deputy Editor-in-Chief Here is the abstract and photographs of the authors. Best regards, Lasman Parulian Purba

7	diri untuk menanyakan jadwal penerbitan, setelah menunggu kurang lebih	8 Desember 2020	File yang dikirimkan lengkap dengan foto dan keterangan akan foto para penulis: https://docs.google.com/document/d/1B42DuqGR8taBtaAkOXaO_qWqqh MAZ7Y9/edit?usp=sharing&ouid=102435822717694993254&rtpof=true &sd=true 08.12.2020, 09:47, Lasman Parulian < lasman.parulian@ukdc.ac.id > Dear Roman Klyuev, Deputy Editor-in-Chief According to your schedule, could you please inform us when the manuscript will be published? Regards,
	selama satu (1) bulan.		Mr. Lasman Parulian Purba,
8		8 Desember 2020	From: Роман Клюев <kluev-roman@rambler.ru> Date: Tue, Dec 8, 2020 at 1:52 PM Subject: RE: Статья Lasman Parulian Purba считка.docx To: lasman.parulian <lasman.parulian@ukdc.ac.id> The article will be released in December 2020. Best regards, Roman Klyuev</lasman.parulian@ukdc.ac.id></kluev-roman@rambler.ru>
9	pada website resmi	dapat diakses	File terbitan dapat diakses pada website resmi" Sustainable Development of Mountain Territories, Vol. 12, No. 4, ISSN 1998-4502; e-ISSN 2499-975X Jurnal Internasional, Bereputasi SJR (2025): 0,626, Scopus Q-1, H-index: 19. Focus and Scope [Home]: https://naukagor.ru/en-gb/ Bukti URL artikel:

TAHAP 1: Pengajuan Manuskrip ke Jurnal

Pada 30 September 2020, mengirimkan file full paper berjudul "Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia" kepada Alamat email yang tertera pada website resmi penerbit: https://naukagor.ru/en-gb/about/editioncontacts, editor@naukagor.ru.

Berikut Adalah file yang dikirimkan:

Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia

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Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia

Our interest is to explore such a characteristics of the young villagers who live in the slope of Mountain Arjuna, East Java Province of Indonesia prior to their existing management competency and existing entrepreneurial intention.

Keywords: system engineering; industrial management; modelling; sustainable development; decision making

1 Introduction

This is a very beginning basic research that explore such a good potential of young villagers in a part of the slope of the Mountain Arjuna (sometimes called Arjuno) located administratively between Batu City (Malang Regency) and Pasuruan Regency in East Java Province of Indonesia since there is no publication until this report is written especially about the current characteristics of the 60-young villagers who leaved near the mountain Arjuno. Mountain Arjuno is a volcano cone with height 3.339 meters upper the sea level (Gunung Arjuno, 316AD; Dan, 2016). Management of the mountain is called as the Taman Hutan Raya (Grand Forest Parks) R. Soeryo (sometimes called as R. Surjo or Raden Soerjo) which total area of the forest was 27.868,30 ha based-on Decree of the Ministry of Forestry Indonesia No. 80/Kpts-II/2001, 19 Mei 2001 (Yudohartono, 2008; Siswanto, 2017). The Grand Forest Parks R. Soeryo administratively located in Tulungrejo Village, Batu City, Malang Regency, East Java Province, Indonesia at 112° 32' 00" East Longitude and 7° 44' 30" South Latitude (NGalamediaLABS, 2013; Dan, 2016). Area of the Grand Forest Park were lies in the five different Regency area of East Java Province i.e.: Mojokerto Regency, Malang Regency, Jombang Regency, Pasuruan Regency and Batu City. There are seven mountains included in the Grand Forest Parks R. Soeryo i.e: Mt. Arjuno (3.339 m), Mt. Welirang (3.156 m), Mt. Anjasmoro (3.217 m), Mt. Kembar I (3.061 m), Mt. Biru (2.337 m), Mt. Kembar II (3.256 m) and Mt. Ringgit (2.474 m)

(NGalamediaLABS, 2013). In Pasuruan Regency, there are only two districts lies in the slope of Mt. Arjuno i.e: Prigen District and Puwodadi District. There are fourteen villages in the Prigen district of the Pasuruan Regency, and thirteen villages in the Purwodadi District (BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS - Statistics of Pasuruan Regency, 2020). The villages near the Mt. Arjuno in Prigen District are Jatiarjo Village, Dayurejo Village, Lumbangrejo Village, Ledug and Pecalukan. The villages near the Mt. Arjuna in Purwodadi District are Tambaksari Village, Jatisari Village and Pucangsari village. Area of the forest on the mountain especially in Pasuruan Regency was about 12.000 ha. There are only 300 ha of 1.500 ha that conserved the forest which broke caused by fire in 2012 (Nugroho *et al.*, 2019).

2 Conceptual development

Forest areas are an important land of agricultural production or farming (Guresci, 2015). According to the forest conservation as proposed and implemented by (Nugroho, 2018; Nugroho *et al.*, 2019), this research aims to gain an understanding what is the characteristics of the peoples near the Mountain Arjuno especially young villagers in their management competency and their entrepreneurial intention. We hope, in the next time, the people especially their young villagers will have better qualities in life as the strategic planned and processed by (Dinas pertanian jawa timur, 2014; PEMERINTAH PROVINSI JAWA TI, 2015; Dinas Pertanian Provinsi Jawa Timur, 2016; Bappeda, 2017) which is supported by our research concept shown in figure 1.

Figure 1. Roadmap / Concept of our research (Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, 2019), parts of * and ** is reported in this paper works.

There are three individual competencies-management that need to know-well in every body in order to success in their work as well (Spencer and Spencer, 1993; Hertanto, 2017). Here in this research work we put in the questionnaires with 9 indicators used to detect the intellectual-competence of the young villagers (42 respondents from Dayurejo Village, 18 respondents from Jatiarjo Village), 5 indicators for the

emotional-competence and 7 indicators for the social-competence. Total respondents were sixty as we don't know population but we have four variables that's why it is a must at least 40 respondents (Sugiyono, 2019). Our future research's goal is the young villagers become an entrepreneur; their family economic-development become sustainable as SDGs (SustainAbility, 2020; Yulaswati, 2020).

Model Core Entrepreneurial Intention of the young villagers was adopted from (Linan and Chen, 2011; Sari, 2013), shown in figure 2.

Fig 2. Concept development about entrepreneurial intention model.

3 Methodology

It was developed a list of indicators to the concept as discussing above in a questionnaires (the EIQ, Entrepreneurial Intention Questionnaire) follow (Linan and Chen, 2011; Sari, 2013). which is X1 with 5 indicators, X2 with 5 indicators (adopted from (Linan and Chen, 2011; Sari, 2013), X3 use the same indicators as (Linan and Chen, 2011; Sari, 2013) and Y use the same indicators as (Linan and Chen, 2011; Sari, 2013) for young villagers.

Table 1. Comparison of sum of the EIQ' indicators.

The questionnaires spread to the villages in a part of the slope of the mountain to sixty young villagers there. After collecting the data from the questionnaires then proceed and analyzed them through software Statistical Packages for Social Sciences (SPSS) version 21.0, respectively.

4 Analysis

About 60 of 100 respondents are the young villagers (Badan Pusat Statistik Provinsi Jawa Timur, 2016) which is the persons who have 16 to 30 years old prior to the survey conducted. It was found that there are 30% of the young villagers comes from Senior High School and 70% from others (35% Junior High School, 27% graduated from Foundation School and 8 not graduate from any others school). There are 52%

man and 48% women. They came from Dayurejo Village, Jatiarjo Village of Prigen District (shown in Fig 3. and Fig 4.).

Fig 3. Location of the research participants especially from Tretes Route ('peta-jalur-pendakian-gunung-arjuno-welirang.pdf', no date; Dan, 2016).

Fig 4. Location of the Young Villagers in the Prigen Subdistrict, Pasuruan Regency, East Java Province, Indonesia (*Kec. Prigen*, no date).

From all the young villagers surveyed, 38% have their own land but 62% not (they borrow land from other people in the village). Most of the young villagers, 93% was become a farmer less than or equals to 5 years and the rest more than 5 years, respectively. There are six kinds of farming of the young villager diligence i.e.: coffee farming, banana farming, cassava farming, avocado farming, cloves farming and corn farming (shown in Table 1).

Table 2. Kinds of farming of the young villagers (Primary data, analyzed (2020)).

There are 57% of the young villagers stated that they receive benefit when they do their farming beside 43% do not receive benefit. The farming that they do still in less coordination. The farming is done 80% by inter cropping and 20% is not. For the 61% of the young villagers agree-well about bee cultivation but there are 20% was not agree.

Through this research it is a need to explore how the young villagers manage themselves and or other peoples in term of the farming that they have done before. We then use questionnaires based-on

(*Pengertian Kompetensi Manajemen SDM*, no date) to understand their personalities, knowledges and skills. In this research work we do not take into accounts personalities of the young villagers according to the lack of information we have and our research background.

The young villagers informed that the knowledge about farming come from themselves (42%), work in group (11%). Their knowledge about management theory came from themselves reach 50% but from work in group about 8%. There are only 25% of the young villagers has a group work and 75% are not. Every group work has a functional leader. Usually, they sell their crop of farming in the original form (66%) directly by themselves (37%) and by middleman (63%). Their crop of farming can be found only in the next near after the crops time in the tour objects which is not so far from their village such as traditional market, Taman Safari market, Taman Dayu, Cheng Ho, Pintu Langit, Jatiarjo Gifts Store and Makoya.

They obtained skills in farming from training (63%), themselves (36%) and Television program (2%), but they do farm without a group leader (64%) and with a group leader (36%). Ability to find skill (self-learning) by themselves is pretty high (67%) and without ability to find (self-learning) by themselves 33% although they have ability to teach other (34%) and but there are 65% of the young villagers cannot teach other in farming skill. From the questionnaire also found that there are 45% can do farming stand alone and 55% cannot do farming stand alone. Their life is adequate, 44% and non-adequate, 56%. The young villagers have a working group of farming (24%) and have not a working group of farming (76%). Skill that they have in farming also the same as their knowledge about farming i.e.: coffee farming (1st), banana farming (2nd), cassava farming (3rd), avocado (4th), clove (5th) and corn (6th).

The average of intellectual competency (ten indicators) of the young villagers was 3.81 out of 5.00 (Likert's scale, 1=very not agree, 2=not agree, 3= neutral, 4= agree, 5=very agree) which is 76%, range from 3.53 to 4.27. The average of emotional competency (5 indicators) of the young villagers was 3.56 / 5.00 which is 71%, range between 3.50 and 3.68. The average of social competency (7 indicators) of them was 3.45 (69%) in the range of 3.22 to 3.67.

After analysis by using SPSS, all of the items in the questionnaires are valid with r_calculated > $r_{table} = (0.2542)$ as of Pearson correlation method (Product Moment) as N=60, df=60-2=58 for two-tailed of significant at least at 95% level (p < .05) for all of indicators. (Junaidi, no date).

To test reliability of the proposed scales was using the usual threshold level of Cronbach's alpha 0.7 for newly developed measures as (Sugiyono, 2019). In this case, the values for four variables (PA, SN, PBC and EI) were 0.922, 0.786, 0.922 and 0.946. Thus, the theoretically developed scales may be considered as reliable. The results affirmed by (Linan & Chen, 2011; Priyatno, 2010; Sari, 2013; Sugiyono, 2007, 2019) which values of *Cronbach's Alpha* more than 0.6.

The independent (inputs) variables i.e.: X1, X2 and X3 (together) effects the dependent (output) variable, Y with regression equation as:

$$Y = -2.158 + 0.701 X1 + 0.350 X2 + 0.248 X3$$
 (Eq. 1)

Coefficient correlation (simultaneously) of inputs to output, R is 0.846. According to the interpretation of the coefficient correlation, R by (Sugiyono, 2007, 2019), the R value 0.846 is fall in the range 0.80 - 1.000 so that there is a very strong correlation among inputs to effect output.

The value of R² (coefficient determination) was 0.715, it means that variation of input variables i.e. Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) could explains only 71.5% the Entrepreneurial Intention (Y) variation. Adjusted R Square were 0.700, with Std. Error of Estimate 2.127.

F-test results show that F_calculated was 46.854 which is more than F_table (2.769) with the level of significant, =0.05, means that Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together affect Entrepreneurial Intention (Y).

Because T_calculated through SPSS for every independent variable were more than T_table (2.003), means that every input variable partially gives positive effect for output variable.

5 Discussion and adoption

The 60-young villagers, in general: graduate from Senior High School, came from Dayurejo Village and Jatiarjo Village, do farming already less than 5 years, have knowledge in farming by themselves but they do

farming (coffee, banana, cassava, avocado, clove and corn) not in their own land. They do not have group work on farming although in the same time they do farm. Their ability to self-learning on farming quite high and they cannot teach other do the same as they do. They have skill on farming from training, but the trainer probably was their parents and or their family member.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency could be stated as follows: they have average 76% intellectual competency, emotional competency 71% and social competency 69%.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their entrepreneurial intention could be stated as the linear regression model (Eq. 1). The equation can be stated as an Entrepreneurial Intention Model for the young villagers based-on data analyzed.

The Eq 1 only based-on the 60 data, and this is as a starting point to generate innovation management for a better future goals that is a must following Sustainable Development Goals in the area (Yulaswati, 2020).

6 Conclusions

It was found what is the characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency and their entrepreneurial intention. They have averaged 76% of intellectual competency, 71% of emotional competency and 69% of social competency. The Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together effects the Entrepreneurial Intention (Y) with model regression equation as: $Y = -2.158 + 0.701 \times 1 + 0.350 \times 2 + 0.248 \times 3$.

References:

BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS - Statistics of Pasuruan Regency (2020) 'Kabupaten Pasuruan Dalam Angka Pasuruan Regency in Figures 2020', (1102001.3514), p. 304. Available at: https://pasuruankab.bps.go.id.

Badan Pusat Statistik Provinsi Jawa Timur (2016) STATISTIK PEMUDA PROVINSI JAWA TIMUR 2016.

Bappeda (2017) 'Data Dinamis Provinsi Jawa Timur', pp. 1–144.

Dan (2016) Arjuno, July 3, 2016. Available at: http://www.gunungbagging.com/arjuno/ (Accessed: 24 May 2020).

Dinas pertanian jawa timur (2014) 'Rencana Strategis Satuan Kerja Perangkat Daerah (RENSTRA SKPD)'.

Dinas Pertanian Provinsi Jawa Timur (2016) 'PEMERINTAH PROVINSI JAWA TIMUR HORTIKULTURA JAWA TIMUR ISSN – 1412-1352'.

Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, dan P. T. (2019) 'Pengembangan Kompetensi Manajemen dan Orientasi Kewirausahaan dalam Rangka Pemberdayaan Kelompok Petani dan Pemuda Pedesaan Di Jawa Timur'. doi: 1a633551-34df-4b0e-9528-2b4d251bf984.

Gunung Arjuno (316AD). Available at: https://id.wikipedia.org/wiki/Gunung Arjuno.

Guresci, E. (2015) 'Farming in the Forests of Black Sea Coastal; Case Study of Black Sea Region in Turkey', *Procedia Economics and Finance*. Elsevier B.V., 23(October 2014), pp. 628–629. doi: 10.1016/s2212-5671(15)00360-3.

Hertanto, E. (2017) 'Teori Kompetensi Manajemen Sumber Daya Manusia', *Manajemen Sumber Daya Manusia*, (November), pp. 1–7.

Junaidi (no date) *Tabel r (Koefisien Korelasi Sederhana)*, *Art & Photos*. Available at: https://www.slideshare.net/hendrayudha9028/19-tabelnilaikritisrpearson.

Kec. Prigen (no date). Available at: https://www.google.com/maps/place/Kec.+Prigen,+Pasuruan,+Jawa+Timur/@-7.6906302,112.5678194,12z/data=!3m1!4b1!4m5!3m4!1s0x2dd7d7ec1e43e171:0xb5cb192d43f3ae3d!8m2!3d-7.6965985!4d112.6437026.

Linan, F. and Chen, Y.-W. (2011) 'Development and Cross-Cultural Application of a Specific Instrument to Measure Entrepreneurial Intentions', *Development Dialogue*, (56), pp. 35–39.

NGalamediaLABS (2013) *Taman Hutan Raya Raden Soeryo*, *12th October 2013*. Available at: http://ngalam.id/read/1362/taman-hutan-raya-raden-soeryo/ (Accessed: 24 May 2020).

Nugroho, M. (2018) 'Bab 2. Kajian Pustaka', in *PROPOSAL DISERTASI*. Malang: PROGRAM DOKTOR KAJIAN LINGKUNGAN DAN PEMBANGUNAN PROGRAM PASCASARJANA UNIVERSITAS BRAWIJAYA MALANG 2018.

Nugroho, M. *et al.* (2019) 'Forest Vegetation Profile for Springs Preservation in Arjuna Mount, East Java-Indonesia', *American Journal of Agriculture and Forestry*, 7(6), pp. 290–296. doi: 10.11648/j.ajaf.20190706.17.

PEMERINTAH PROVINSI JAWA TI (2015) 'RENCANA KINERJA TAHUNAN (RKT) DINAS PERTANIAN PROVINSI JAWA TIMUR TAHUN 2015'.

Pengertian Kompetensi Manajemen SDM (no date). Available at: https://ilmumanajemenindustri.com/pengertian-kompetensi-competency-dalam-%09manajemen-sdm/ diakses 2019.

'peta-jalur-pendakian-gunung-arjuno-welirang.pdf' (no date).

Priyatno, D. (2010) Paham Analisa Statistik Data dengan SPSS. MediaKom, Yogyakarta, Indonesia.

Purba, L. and Hermanto, Y. (2020) KOMPETENSI MANAJEMEN DAN ORIENTASI KEWIRAUSAHAAN PEMUDA DI PEDESAAN LERENG GUNUNG ARJUNA JAWA TIMUR. Surabaya.

Sari, E. T. (2013) 'Entrepreneurial Intention among Employees', *Jurnal Entrepreneur dan Entrepreneurship*, 3, pp. 39–48.

Siswanto, W. (2017) 'Conservation Area Management in Indonesia', p. 24. Available at: http://www.forclime.org.

Spencer, J. L. M. and Spencer, S. M. (1993) *Competence at Work: Models for Superior Performance*. 1st edn. New Jersey: John Wiley & Sons, Inc.

Sugiyono (2007) Metode Penelitian Bisnis. Bandung: CV. Alfabeta.

Sugiyono (2019) *Metode Penelitian & Pengembangan (Research and Development/ R&D)*. Edited by S. Suryandari. Bandung: ALFABETA, CV.

SustainAbility (2020) 'What' s next for sustainable business? Trends 2020'.

Yudohartono, T. P. (2008) 'Peranan Taman Hutan Raya Dalam Konservasi Sumberdaya Genetik: Peluang Dan Tantangannya', *Informasi Teknis*, 6(2), pp. 1–6.

Yulaswati, V. (2020) 'SDGs IMPLEMENTATION IN INDONESIA'.

Figure 1. Roadmap / Concept of our research (Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, 2019), parts of * and ** is reported in this paper works.

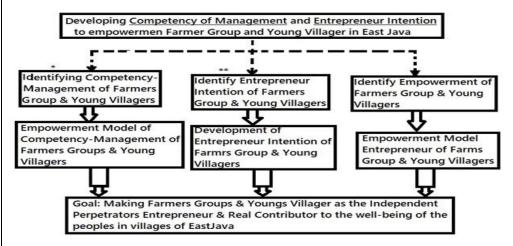


Figure 2. Concept development about entrepreneurial intention model.

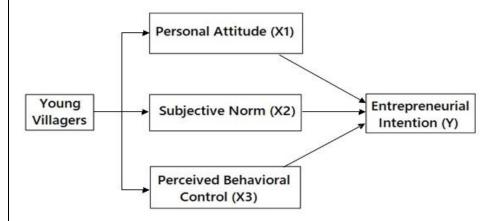


Figure 3. Location of the research participants especially from Tretes Route ('peta-jalur-pendakian-gunung-arjuno-welirang.pdf', no date; Dan, 2016)

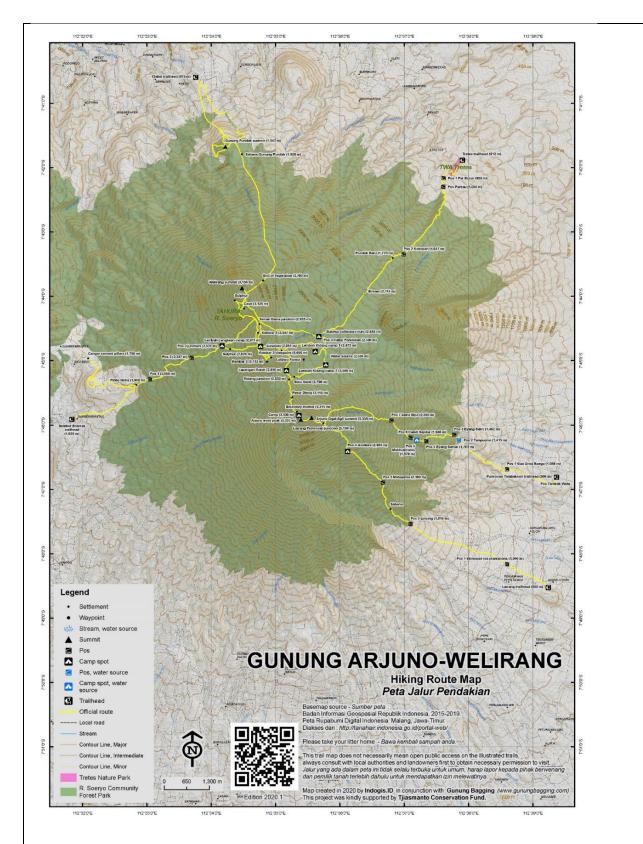


Figure 4. Location of the Young Villagers in the Prigen Subdistrict, Pasuruan Regency, East Java Province, Indonesia (*Kec. Prigen*, no date).

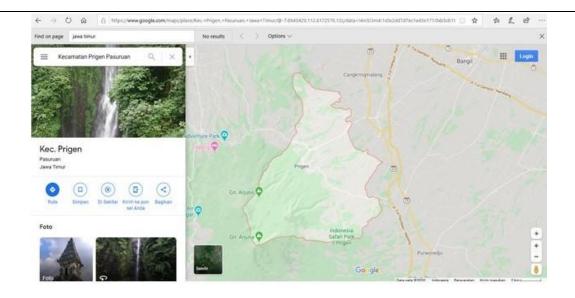


Table 1. Comparison of sum of the EIQ' indicators.

Variables	(Linan and Chen, 2011)	(Sari, 2013)	Proposed
PA, X1	5 indicators	5 indicators	5 indicators
SN, X2	3 indicators	7 indicators	5 indicators
PBC, X3	6 indicators	5 indicators	6 indicators
EI, Y	6 indicators	5 indicators	6 indicators

Table 2. Kinds of farming of the young villagers (Primary data, analyzed (2020)).

No.	Kind of Farming	Frequency
1	Coffee	24
2	Banana	13
3	Cassava	12
4	Clove	11
5	Corn	11
6	Avocado	11
7	Durian	9
8	Pineapple	3
9	Jackfruit	3 3
10	rambutan	
11	Soursop	2
12	Rice	1
13	Carrot	1
14	Elephants' grass	1
15	Strobery	1
16	Eggplant	1
17	Orange	1
18	Guava	1
19	Vegetable	1
20	Sea-wood	1
21	Tree	1
22	Petai	1
23	Grape	1

TAHAP 2: Mengirimkan ulang karena tidak terdapat balasan sejak September 2020 s.d. Oktober 2020.

Perkiraan antara tgl 31 Oktober – 3 November 2020 email: tidak dapat dibuka karena kerusakan seluruh server/email ukdc.ac.id sebelumnya... yang terselamatkan yaitu tangkapan layar (screen shoot) mulai tgl 5 November 2020 s.d. 8 Desember 2020 – penerbitan.

File yang dikirim Adalah sebagai berikut:

Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia

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Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia

Our interest is to explore such a characteristics of the young villagers who live in the slope of Mountain Arjuna, East Java Province of Indonesia prior to their existing management competency and existing entrepreneurial intention.

Keywords: system engineering; industrial management; modelling; sustainable development; decision making

1 Introduction

This is a very beginning basic research that explore such a good potential of young villagers in a part of the slope of the Mountain Arjuna (sometimes called Arjuno) located administratively between Batu City (Malang Regency) and Pasuruan Regency in East Java Province of Indonesia since there is no publication until this report is written especially about the current characteristics of the 60-young villagers who leaved near the mountain Arjuno. Mountain Arjuno is a volcano cone with height 3.339 meters upper the sea level (Gunung Arjuno, 316AD; Dan, 2016). Management of the mountain is called as the Taman Hutan Raya (Grand Forest Parks) R. Soeryo (sometimes called as R. Surjo or Raden Soerjo) which total area of the forest was 27.868,30 ha based-on Decree of the Ministry of Forestry Indonesia No. 80/Kpts-II/2001, 19 Mei 2001 (Yudohartono, 2008; Siswanto, 2017). The Grand Forest Parks R. Soeryo administratively located in Tulungrejo Village, Batu City, Malang Regency, East Java Province, Indonesia at 112° 32' 00" East Longitude and 7° 44' 30" South Latitude (NGalamediaLABS, 2013; Dan, 2016). Area of the Grand Forest Park were lies in the five different Regency area of East Java Province i.e.: Mojokerto Regency, Malang Regency, Jombang Regency, Pasuruan Regency and Batu City. There are seven mountains included in the Grand Forest Parks R. Soeryo i.e: Mt. Arjuno (3.339 m), Mt. Welirang (3.156 m), Mt. Anjasmoro (3.217 m), Mt. Kembar I (3.061 m), Mt. Biru (2.337 m), Mt. Kembar II (3.256 m) and Mt. Ringgit (2.474 m)

(NGalamediaLABS, 2013). In Pasuruan Regency, there are only two districts lies in the slope of Mt. Arjuno i.e: Prigen District and Puwodadi District. There are fourteen villages in the Prigen district of the Pasuruan Regency, and thirteen villages in the Purwodadi District (BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS - Statistics of Pasuruan Regency, 2020). The villages near the Mt. Arjuno in Prigen District are Jatiarjo Village, Dayurejo Village, Lumbangrejo Village, Ledug and Pecalukan. The villages near the Mt. Arjuna in Purwodadi District are Tambaksari Village, Jatisari Village and Pucangsari village. Area of the forest on the mountain especially in Pasuruan Regency was about 12.000 ha. There are only 300 ha of 1.500 ha that conserved the forest which broke caused by fire in 2012 (Nugroho *et al.*, 2019).

2 Conceptual development

Forest areas are an important land of agricultural production or farming (Guresci, 2015). According to the forest conservation as proposed and implemented by (Nugroho, 2018; Nugroho *et al.*, 2019), this research aims to gain an understanding what is the characteristics of the peoples near the Mountain Arjuno especially young villagers in their management competency and their entrepreneurial intention. We hope, in the next time, the people especially their young villagers will have better qualities in life as the strategic planned and processed by (Dinas pertanian jawa timur, 2014; PEMERINTAH PROVINSI JAWA TI, 2015; Dinas Pertanian Provinsi Jawa Timur, 2016; Bappeda, 2017) which is supported by our research concept shown in figure 1.

Figure 1. Roadmap / Concept of our research (Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, 2019), parts of * and ** is reported in this paper works.

There are three individual competencies-management that need to know-well in every body in order to success in their work as well (Spencer and Spencer, 1993; Hertanto, 2017). Here in this research work we put in the questionnaires with 9 indicators used to detect the intellectual-competence of the young villagers (42 respondents from Dayurejo Village, 18 respondents from Jatiarjo Village), 5 indicators for the

emotional-competence and 7 indicators for the social-competence. Total respondents were sixty as we don't know population but we have four variables that's why it is a must at least 40 respondents (Sugiyono, 2019). Our future research's goal is the young villagers become an entrepreneur; their family economic-development become sustainable as SDGs (SustainAbility, 2020; Yulaswati, 2020).

Model Core Entrepreneurial Intention of the young villagers was adopted from (Linan and Chen, 2011; Sari, 2013), shown in figure 2.

Fig 2. Concept development about entrepreneurial intention model.

3 Methodology

It was developed a list of indicators to the concept as discussing above in a questionnaires (the EIQ, Entrepreneurial Intention Questionnaire) follow (Linan and Chen, 2011; Sari, 2013). which is X1 with 5 indicators, X2 with 5 indicators (adopted from (Linan and Chen, 2011; Sari, 2013), X3 use the same indicators as (Linan and Chen, 2011; Sari, 2013) and Y use the same indicators as (Linan and Chen, 2011; Sari, 2013) for young villagers.

Table 1. Comparison of sum of the EIQ' indicators.

The questionnaires spread to the villages in a part of the slope of the mountain to sixty young villagers there. After collecting the data from the questionnaires then proceed and analyzed them through software Statistical Packages for Social Sciences (SPSS) version 21.0, respectively.

4 Analysis

About 60 of 100 respondents are the young villagers (Badan Pusat Statistik Provinsi Jawa Timur, 2016) which is the persons who have 16 to 30 years old prior to the survey conducted. It was found that there are 30% of the young villagers comes from Senior High School and 70% from others (35% Junior High School, 27% graduated from Foundation School and 8 not graduate from any others school). There are 52%

man and 48% women. They came from Dayurejo Village, Jatiarjo Village of Prigen District (shown in Fig 3. and Fig 4.).

Fig 3. Location of the research participants especially from Tretes Route ('peta-jalur-pendakian-gunung-arjuno-welirang.pdf', no date; Dan, 2016).

Fig 4. Location of the Young Villagers in the Prigen Subdistrict, Pasuruan Regency, East Java Province, Indonesia (*Kec. Prigen*, no date).

From all the young villagers surveyed, 38% have their own land but 62% not (they borrow land from other people in the village). Most of the young villagers, 93% was become a farmer less than or equals to 5 years and the rest more than 5 years, respectively. There are six kinds of farming of the young villager diligence i.e.: coffee farming, banana farming, cassava farming, avocado farming, cloves farming and corn farming (shown in Table 1).

Table 2. Kinds of farming of the young villagers (Primary data, analyzed (2020)).

There are 57% of the young villagers stated that they receive benefit when they do their farming beside 43% do not receive benefit. The farming that they do still in less coordination. The farming is done 80% by inter cropping and 20% is not. For the 61% of the young villagers agree-well about bee cultivation but there are 20% was not agree.

Through this research it is a need to explore how the young villagers manage themselves and or other peoples in term of the farming that they have done before. We then use questionnaires based-on

(*Pengertian Kompetensi Manajemen SDM*, no date) to understand their personalities, knowledges and skills. In this research work we do not take into accounts personalities of the young villagers according to the lack of information we have and our research background.

The young villagers informed that the knowledge about farming come from themselves (42%), work in group (11%). Their knowledge about management theory came from themselves reach 50% but from work in group about 8%. There are only 25% of the young villagers has a group work and 75% are not. Every group work has a functional leader. Usually, they sell their crop of farming in the original form (66%) directly by themselves (37%) and by middleman (63%). Their crop of farming can be found only in the next near after the crops time in the tour objects which is not so far from their village such as traditional market, Taman Safari market, Taman Dayu, Cheng Ho, Pintu Langit, Jatiarjo Gifts Store and Makoya.

They obtained skills in farming from training (63%), themselves (36%) and Television program (2%), but they do farm without a group leader (64%) and with a group leader (36%). Ability to find skill (self-learning) by themselves is pretty high (67%) and without ability to find (self-learning) by themselves 33% although they have ability to teach other (34%) and but there are 65% of the young villagers cannot teach other in farming skill. From the questionnaire also found that there are 45% can do farming stand alone and 55% cannot do farming stand alone. Their life is adequate, 44% and non-adequate, 56%. The young villagers have a working group of farming (24%) and have not a working group of farming (76%). Skill that they have in farming also the same as their knowledge about farming i.e.: coffee farming (1st), banana farming (2nd), cassava farming (3rd), avocado (4th), clove (5th) and corn (6th).

The average of intellectual competency (ten indicators) of the young villagers was 3.81 out of 5.00 (Likert's scale, 1=very not agree, 2=not agree, 3= neutral, 4= agree, 5=very agree) which is 76%, range from 3.53 to 4.27. The average of emotional competency (5 indicators) of the young villagers was 3.56 / 5.00 which is 71%, range between 3.50 and 3.68. The average of social competency (7 indicators) of them was 3.45 (69%) in the range of 3.22 to 3.67.

After analysis by using SPSS, all of the items in the questionnaires are valid with r_calculated > $r_{table} = (0.2542)$ as of Pearson correlation method (Product Moment) as N=60, df=60-2=58 for two-tailed of significant at least at 95% level (p < .05) for all of indicators. (Junaidi, no date).

To test reliability of the proposed scales was using the usual threshold level of Cronbach's alpha 0.7 for newly developed measures as (Sugiyono, 2019). In this case, the values for four variables (PA, SN, PBC and EI) were 0.922, 0.786, 0.922 and 0.946. Thus, the theoretically developed scales may be considered as reliable. The results affirmed by (Linan & Chen, 2011; Priyatno, 2010; Sari, 2013; Sugiyono, 2007, 2019) which values of *Cronbach's Alpha* more than 0.6.

The independent (inputs) variables i.e.: X1, X2 and X3 (together) effects the dependent (output) variable, Y with regression equation as:

$$Y = -2.158 + 0.701 X1 + 0.350 X2 + 0.248 X3$$
 (Eq. 1)

Coefficient correlation (simultaneously) of inputs to output, R is 0.846. According to the interpretation of the coefficient correlation, R by (Sugiyono, 2007, 2019), the R value 0.846 is fall in the range 0.80 - 1.000 so that there is a very strong correlation among inputs to effect output.

The value of R² (coefficient determination) was 0.715, it means that variation of input variables i.e. Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) could explains only 71.5% the Entrepreneurial Intention (Y) variation. Adjusted R Square were 0.700, with Std. Error of Estimate 2.127.

F-test results show that F_calculated was 46.854 which is more than F_table (2.769) with the level of significant, =0.05, means that Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together affect Entrepreneurial Intention (Y).

Because T_calculated through SPSS for every independent variable were more than T_table (2.003), means that every input variable partially gives positive effect for output variable.

5 Discussion and adoption

The 60-young villagers, in general: graduate from Senior High School, came from Dayurejo Village and Jatiarjo Village, do farming already less than 5 years, have knowledge in farming by themselves but they do

farming (coffee, banana, cassava, avocado, clove and corn) not in their own land. They do not have group work on farming although in the same time they do farm. Their ability to self-learning on farming quite high and they cannot teach other do the same as they do. They have skill on farming from training, but the trainer probably was their parents and or their family member.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency could be stated as follows: they have average 76% intellectual competency, emotional competency 71% and social competency 69%.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their entrepreneurial intention could be stated as the linear regression model (Eq. 1). The equation can be stated as an Entrepreneurial Intention Model for the young villagers based-on data analyzed.

The Eq 1 only based-on the 60 data, and this is as a starting point to generate innovation management for a better future goals that is a must following Sustainable Development Goals in the area (Yulaswati, 2020).

6 Conclusions

It was found what is the characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency and their entrepreneurial intention. They have averaged 76% of intellectual competency, 71% of emotional competency and 69% of social competency. The Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together effects the Entrepreneurial Intention (Y) with model regression equation as: $Y = -2.158 + 0.701 \times 1 + 0.350 \times 2 + 0.248 \times 3$.

References:

BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS - Statistics of Pasuruan Regency (2020) 'Kabupaten Pasuruan Dalam Angka Pasuruan Regency in Figures 2020', (1102001.3514), p. 304. Available at: https://pasuruankab.bps.go.id.

Badan Pusat Statistik Provinsi Jawa Timur (2016) STATISTIK PEMUDA PROVINSI JAWA TIMUR 2016.

Bappeda (2017) 'Data Dinamis Provinsi Jawa Timur', pp. 1–144.

Dan (2016) Arjuno, July 3, 2016. Available at: http://www.gunungbagging.com/arjuno/ (Accessed: 24 May 2020).

Dinas pertanian jawa timur (2014) 'Rencana Strategis Satuan Kerja Perangkat Daerah (RENSTRA SKPD)'.

Dinas Pertanian Provinsi Jawa Timur (2016) 'PEMERINTAH PROVINSI JAWA TIMUR HORTIKULTURA JAWA TIMUR ISSN – 1412-1352'.

Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, dan P. T. (2019) 'Pengembangan Kompetensi Manajemen dan Orientasi Kewirausahaan dalam Rangka Pemberdayaan Kelompok Petani dan Pemuda Pedesaan Di Jawa Timur'. doi: 1a633551-34df-4b0e-9528-2b4d251bf984.

Gunung Arjuno (316AD). Available at: https://id.wikipedia.org/wiki/Gunung Arjuno.

Guresci, E. (2015) 'Farming in the Forests of Black Sea Coastal; Case Study of Black Sea Region in Turkey', *Procedia Economics and Finance*. Elsevier B.V., 23(October 2014), pp. 628–629. doi: 10.1016/s2212-5671(15)00360-3.

Hertanto, E. (2017) 'Teori Kompetensi Manajemen Sumber Daya Manusia', *Manajemen Sumber Daya Manusia*, (November), pp. 1–7.

Junaidi (no date) *Tabel r (Koefisien Korelasi Sederhana)*, *Art & Photos*. Available at: https://www.slideshare.net/hendrayudha9028/19-tabelnilaikritisrpearson.

Kec. Prigen (no date). Available at: https://www.google.com/maps/place/Kec.+Prigen,+Pasuruan,+Jawa+Timur/@-7.6906302,112.5678194,12z/data=!3m1!4b1!4m5!3m4!1s0x2dd7d7ec1e43e171:0xb5cb192d43f3ae3d!8m2!3d-7.6965985!4d112.6437026.

Linan, F. and Chen, Y.-W. (2011) 'Development and Cross-Cultural Application of a Specific Instrument to Measure Entrepreneurial Intentions', *Development Dialogue*, (56), pp. 35–39.

NGalamediaLABS (2013) *Taman Hutan Raya Raden Soeryo*, *12th October 2013*. Available at: http://ngalam.id/read/1362/taman-hutan-raya-raden-soeryo/ (Accessed: 24 May 2020).

Nugroho, M. (2018) 'Bab 2. Kajian Pustaka', in *PROPOSAL DISERTASI*. Malang: PROGRAM DOKTOR KAJIAN LINGKUNGAN DAN PEMBANGUNAN PROGRAM PASCASARJANA UNIVERSITAS BRAWIJAYA MALANG 2018.

Nugroho, M. *et al.* (2019) 'Forest Vegetation Profile for Springs Preservation in Arjuna Mount, East Java-Indonesia', *American Journal of Agriculture and Forestry*, 7(6), pp. 290–296. doi: 10.11648/j.ajaf.20190706.17.

PEMERINTAH PROVINSI JAWA TI (2015) 'RENCANA KINERJA TAHUNAN (RKT) DINAS PERTANIAN PROVINSI JAWA TIMUR TAHUN 2015'.

Pengertian Kompetensi Manajemen SDM (no date). Available at: https://ilmumanajemenindustri.com/pengertian-kompetensi-competency-dalam-%09manajemen-sdm/ diakses 2019.

'peta-jalur-pendakian-gunung-arjuno-welirang.pdf' (no date).

Priyatno, D. (2010) Paham Analisa Statistik Data dengan SPSS. MediaKom, Yogyakarta, Indonesia.

Purba, L. and Hermanto, Y. (2020) KOMPETENSI MANAJEMEN DAN ORIENTASI KEWIRAUSAHAAN PEMUDA DI PEDESAAN LERENG GUNUNG ARJUNA JAWA TIMUR. Surabaya.

Sari, E. T. (2013) 'Entrepreneurial Intention among Employees', *Jurnal Entrepreneur dan Entrepreneurship*, 3, pp. 39–48.

Siswanto, W. (2017) 'Conservation Area Management in Indonesia', p. 24. Available at: http://www.forclime.org.

Spencer, J. L. M. and Spencer, S. M. (1993) *Competence at Work: Models for Superior Performance*. 1st edn. New Jersey: John Wiley & Sons, Inc.

Sugiyono (2007) Metode Penelitian Bisnis. Bandung: CV. Alfabeta.

Sugiyono (2019) *Metode Penelitian & Pengembangan (Research and Development/ R&D)*. Edited by S. Suryandari. Bandung: ALFABETA, CV.

SustainAbility (2020) 'What' s next for sustainable business? Trends 2020'.

Yudohartono, T. P. (2008) 'Peranan Taman Hutan Raya Dalam Konservasi Sumberdaya Genetik: Peluang Dan Tantangannya', *Informasi Teknis*, 6(2), pp. 1–6.

Yulaswati, V. (2020) 'SDGs IMPLEMENTATION IN INDONESIA'.

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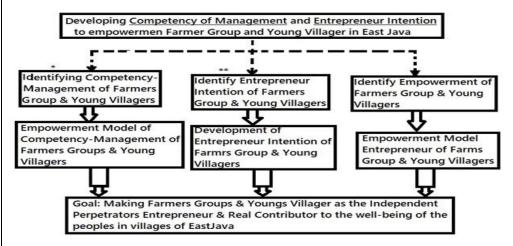


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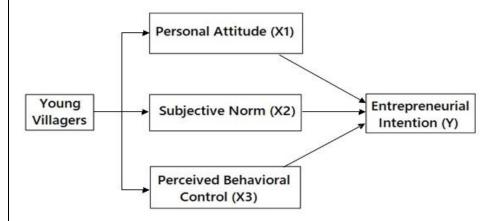


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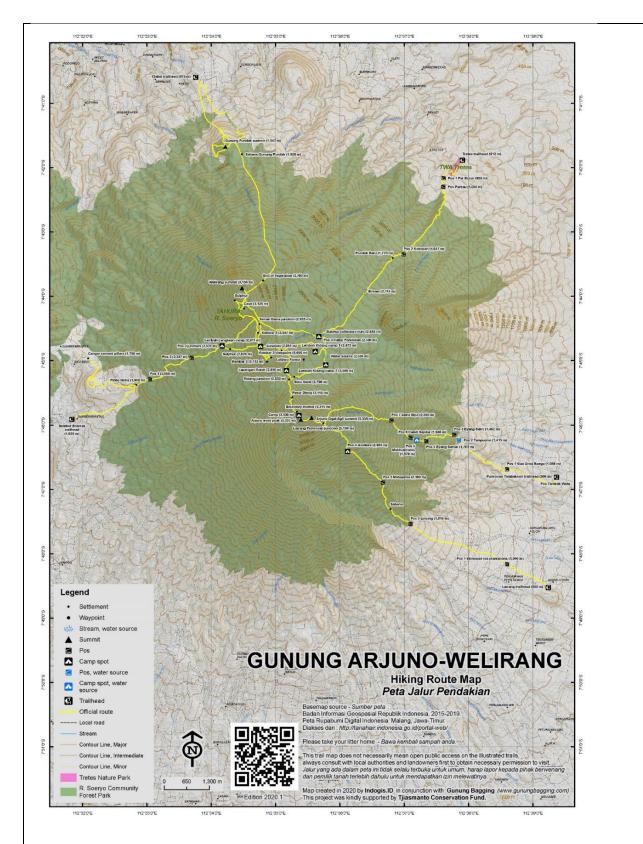


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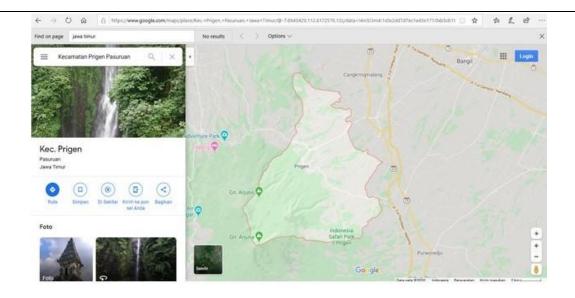


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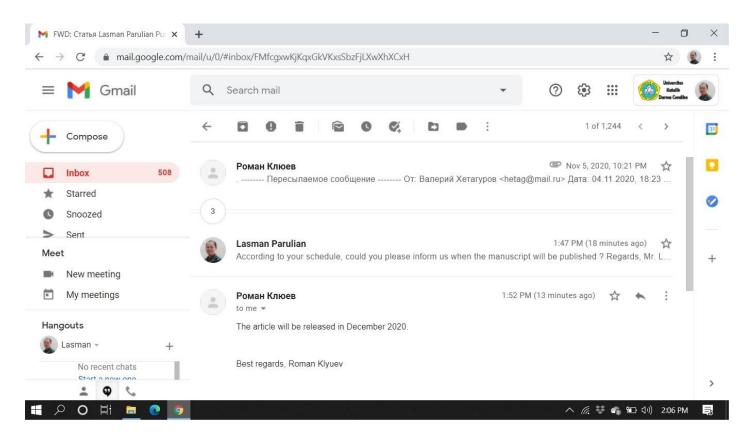
Variables	(Linan and Chen, 2011)	(Sari, 2013)	Proposed
PA, X1	5 indicators	5 indicators	5 indicators
SN, X2	3 indicators	7 indicators	5 indicators
PBC, X3	6 indicators	5 indicators	6 indicators
EI, Y	6 indicators	5 indicators	6 indicators

Table 2. Kinds of farming of the young villagers (Primary data, analyzed (2020)).

No.	Kind of Farming	Frequency
1	Coffee	24
2	Banana	13
3	Cassava	12
4	Clove	11
5	Corn	11
6	Avocado	11
7	Durian	9
8	Pineapple	3
9	Jackfruit	3 3
10	rambutan	
11	Soursop	2
12	Rice	1
13	Carrot	1
14	Elephants' grass	1
15	Strobery	1
16	Eggplant	1
17	Orange	1
18	Guava	1
19	Vegetable	1
20	Sea-wood	1
21	Tree	1
22	Petai	1
23	Grape	1

TAHAP 3: Penerimaan awal respons dari Editor / Penerbit Jurnal

Pada tanggal 5 November 2020 email diantara internal Editor dan atau Reviewer pada tanggal 4 November 2020 pkl. 18:23 diteruskan (forward) kepada saya via email pada hari Kamis, tgl 5 November 2020 pada pkl. 10:21 PM (malam hari).



On Thu, Nov 5, 2020 at 10:21 PM Роман Клюев < kluev-roman@rambler.ru > wrote:

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Дата: 04.11.2020, 18:23
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<mark>УДК</mark>

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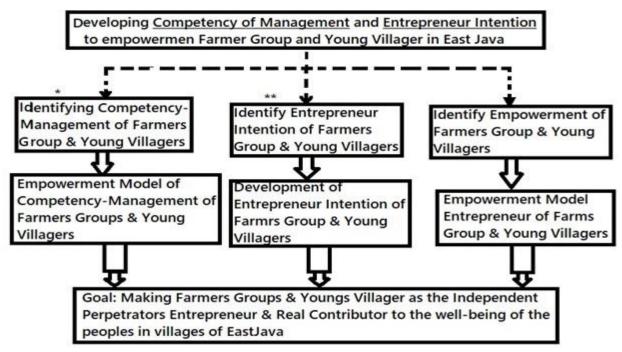


Figure 1. Roadmap / Concept of our research (Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, 2019), parts of * and ** is reported in this paper works

There are three individual competencies-management that need to know-well in every body in order to success in their work as well (Spencer and Spencer, 1993; Hertanto, 2017). Here in this research work we put in the questionnaires with 9 indicators used to detect the intellectual-competence of the young villagers (42 respondents from Dayurejo Village, 18 respondents from Jatiarjo Village), 5 indicators for the emotional-competence and 7 indicators for the social-competence. Total respondents were sixty as we don't know population but we have four variables that's why it is a must at least 40 respondents (Sugiyono, 2019). Our future research's goal is the young villagers become an entrepreneur; their family economic-development become sustainable as SDGs (SustainAbility, 2020; Yulaswati, 2020).

Model Core Entrepreneurial Intention of the young villagers was adopted from (Linan and Chen, 2011; Sari, 2013), shown in fig. 2.

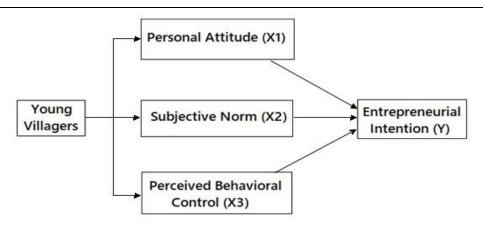


Figure 2. Concept development about entrepreneurial intention model

Methodology

It was developed a list of indicators to the concept as discussing above in a questionnaires (the EIQ, Entrepreneurial Intention Questionnaire) follow (Linan and Chen, 2011; Sari, 2013). which is X1 with 5 indicators, X2 with 5 indicators (adopted from (Linan and Chen, 2011; Sari, 2013), X3 use the same indicators as (Linan and Chen, 2011; Sari, 2013) and Y use the same indicators as (Linan and Chen, 2011; Sari, 2013) for young villagers.

Table 1. Comparison of sum of the EIQ' indicators.

Table 1

Comparison of sum of the EIQ' indicators

Variables	(Linan and Chen, 2011)	(Sari, 2013)	Proposed
PA, X1	5 indicators	5 indicators	5 indicators
SN, X2	3 indicators	7 indicators	5 indicators
PBC, X3	6 indicators	5 indicators	6 indicators
EI, Y	6 indicators	5 indicators	6 indicators

The questionnaires spread to the villages in a part of the slope of the mountain to sixty young villagers there. After collecting the data from the questionnaires then proceed and analyzed them through software Statistical Packages for Social Sciences (SPSS) version 21.0, respectively.

Analysis

About 60 of 100 respondents are the young villagers (Badan Pusat Statistik Provinsi Jawa Timur, 2016) which is the persons who have 16 to 30 years old prior to the survey conducted. It was found that there are 30% of the young villagers comes from Senior High School and 70% from others (35% Junior High School, 27% graduated from Foundation School and 8 not graduate from any others school). There are 52% man and 48% women. They came from Dayurejo Village, Jatiarjo Village of Prigen District (shown in Fig 3. and Fig 4.).

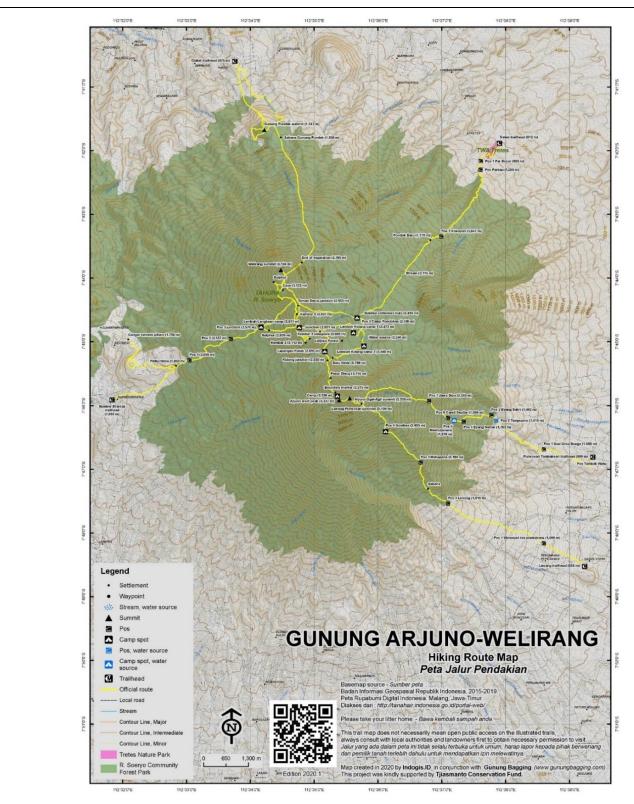


Figure 3. Location of the research participants especially from Tretes Route ('peta-jalur-pendakian-gunung-arjuno-welirang.pdf', no date; Dan, 2016)

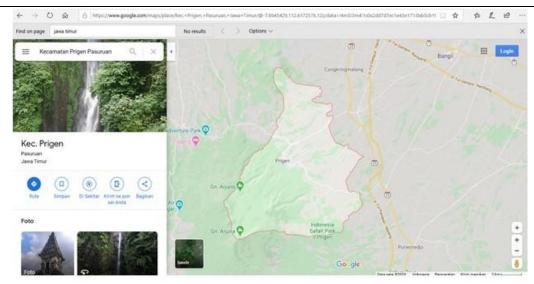


Figure 4. Location of the Young Villagers in the Prigen Subdistrict, Pasuruan Regency, East Java Province, Indonesia (Kec. Prigen, no date)

From all the young villagers surveyed, 38% have their own land but 62% not (they borrow land from other people in the village). Most of the young villagers, 93% was become a farmer less than or equals to 5 years and the rest more than 5 years, respectively. There are six kinds of farming of the young villager diligence i.e.: coffee farming, banana farming, cassava farming, avocado farming, cloves farming and corn farming (shown in Tabl. 2).

Kinds of farming of the young villagers (Primary data, analyzed (2020)).

Table 2

No.	Kind of Farming	Frequency
1	Coffee	24
2	Banana	13
3	Cassava	12
4	Clove	11
5	Corn	11
6	Avocado	11
7	Durian	9
8	Pineapple	3
9	Jackfruit	3
10	rambutan	3
11	Soursop	2
12	Rice	1
13	Carrot	1
14	Elephants' grass	1
15	Strobery	1
16	Eggplant	1
17	Orange	1
18	Guava	1
19	Vegetable	1
20	Sea-wood	1
21	Tree	1
22	Petai	1

There are 57% of the young villagers stated that they receive benefit when they do their farming beside 43% do not receive benefit. The farming that they do still in less coordination. The farming is done 80% by inter cropping and 20% is not. For the 61% of the young villagers agree-well about bee cultivation but there are 20% was not agree.

Through this research it is a need to explore how the young villagers manage themselves and or other peoples in term of the farming that they have done before. We then use questionnaires based-on (Pengertian Kompetensi Manajemen SDM, no date) to understand their personalities, knowledge's and skills. In this research work we do not take into accounts personalities of the young villagers according to the lack of information we have and our research background.

The young villagers informed that the knowledge about farming come from themselves (42%), work in group (11%). Their knowledge about management theory came from themselves reach 50% but from work in group about 8%. There are only 25% of the young villagers has a group work and 75% are not. Every group work has a functional leader. Usually, they sell their crop of farming in the original form (66%) directly by themselves (37%) and by middleman (63%). Their crop of farming can be found only in the next near after the crops time in the tour objects which is not so far from their village such as traditional market, Taman Safari market, Taman Dayu, Cheng Ho, Pintu Langit, Jatiarjo Gifts Store and Makoya.

They obtained skills in farming from training (63%), themselves (36%) and Television program (2%), but they do farm without a group leader (64%) and with a group leader (36%). Ability to find skill (self-learning) by themselves is pretty high (67%) and without ability to find (self-learning) by themselves 33% although they have ability to teach other (34%) and but there are 65% of the young villagers cannot teach other in farming skill. From the questionnaire also found that there are 45% can do farming stand alone and 55% cannot do farming stand alone. Their life is adequate, 44% and non-adequate, 56%. The young villagers have a working group of farming (24%) and have not a working group of farming (76%). Skill that they have in farming also the same as their knowledge about farming i.e.: coffee farming (1st), banana farming (2nd), cassava farming (3rd), avocado (4th), clove (5th) and corn (6th).

The average of intellectual competency (ten indicators) of the young villagers was 3.81 out of 5.00 (Likert's scale, 1=very not agree, 2=not agree, 3= neutral, 4= agree, 5=very agree) which is 76%, range from 3.53 to 4.27. The average of emotional competency (5 indicators) of the young villagers was 3.56 / 5.00 which is 71%, range between 3.50 and 3.68. The average of social competency (7 indicators) of them was 3.45 (69%) in the range of 3.22 to 3.67.

After analysis by using SPSS, all of the items in the questionnaires are valid with $r_{\text{calculated}} > r_{\text{table}}$ (0.2542) as of Pearson correlation method (Product Moment) as N=60, df=60-2=58 for two-tailed of significant at least at 95% level (p < .05) for all of indicators. (Junaidi, no date).

To test reliability of the proposed scales was using the usual threshold level of Cronbach's alpha 0.7 for newly developed measures as (Sugiyono, 2019). In this case, the values for four variables (PA, SN, PBC and EI) were 0.922, 0.786, 0.922 and 0.946. Thus, the theoretically developed scales may be considered as reliable. The results affirmed by (Linan & Chen, 2011; Priyatno, 2010; Sari, 2013; Sugiyono, 2007, 2019) which values of Cronbach's

Alpha more than 0.6.

The independent (inputs) variables i.e.: X1, X2 and X3 (together) effects the dependent (output) variable, Y with regression equation as:

$$Y = -2.158 + 0.701 X1 + 0.350 X2 + 0.248 X3$$
 (1)

Coefficient correlation (simultaneously) of inputs to output, R is 0.846. According to the interpretation of the coefficient correlation, R by (Sugiyono, 2007, 2019), the R value 0.846 is fall in the range 0.80 - 1.000 so that there is a very strong correlation among inputs to effect output.

The value of R2 (coefficient determination) was 0.715, it means that variation of input variables i.e. Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) could explains only 71.5% the Entrepreneurial Intention (Y) variation. Adjusted R Square were 0.700, with Std. Error of Estimate 2.127.

F-test results show that F_calculated was 46.854 which is more than F_table (2.769) with the level of significant, =0.05, means that Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together affect Entrepreneurial Intention (Y).

Because T_calculated through SPSS for every independent variable were more than T_table (2.003), means that every input variable partially gives positive effect for output variable.

Discussion and adoption

The 60-young villagers, in general: graduate from Senior High School, came from Dayurejo Village and Jatiarjo Village, do farming already less than 5 years, have knowledge in farming by themselves but they do farming (coffee, banana, cassava, avocado, clove and corn) not in their own land. They do not have group work on farming although in the same time they do farm. Their ability to self-learning on farming quite high and they cannot teach other do the same as they do. They have skill on farming from training, but the trainer probably was their parents and or their family member.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency could be stated as follows: they have average 76% intellectual competency, emotional competency 71% and social competency 69%.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their entrepreneurial intention could be stated as the linear regression model (1). The equation can be stated as an Entrepreneurial Intention Model for the young villagers based-on data analyzed.

The (1) only based-on the 60 data, and this is as a starting point to generate innovation management for a better future goals that is a must following Sustainable Development Goals in the area (Yulaswati, 2020).

Conclusions

It was found what is the characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency and their entrepreneurial intention. They have averaged 76% of intellectual competency, 71% of emotional competency and 69% of social competency. The Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together effects the Entrepreneurial

Intention (Y) with model regression equation as: Y = -2.158 + 0.701 X1 + 0.350 X2 + 0.248 X3.

References

- 1. Badan pusat statistik kabupaten pasuruan BPS Statistics of Pasuruan Regency (2020) 'Kabupaten Pasuruan Dalam Angka Pasuruan Regency in Figures 2020', (1102001.3514), p. 304. Available at: https://pasuruankab.bps.go.id.
- 2. Badan Pusat Statistik Provinsi Jawa Timur (2016) STATISTIK PEMUDA PROVINSI JAWA TIMUR 2016.
- 3. Bappeda (2017) 'Data Dinamis Provinsi Jawa Timur', pp. 1–144.
- 4. Dan (2016) Arjuno, July 3, 2016. Available at: http://www.gunungbagging.com/arjuno/ (Accessed: 24 May 2020).
- 5. Dinas pertanian jawa timur (2014) 'Rencana Strategis Satuan Kerja Perangkat Daerah (RENSTRA SKPD)'.
- 6. Dinas Pertanian Provinsi Jawa Timur (2016) 'PEMERINTAH PROVINSI JAWA TIMUR HORTIKULTURA JAWA TIMUR ISSN 1412-1352'.
- 7. Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, dan P. T. (2019) 'Pengembangan Kompetensi Manajemen dan Orientasi Kewirausahaan dalam Rangka Pemberdayaan Kelompok Petani dan Pemuda Pedesaan Di Jawa Timur'. doi: 1a633551-34df-4b0e-9528-2b4d251bf984.
- 8. Gunung_Arjuno (316AD). Available at: https://id.wikipedia.org/wiki/Gunung_Arjuno.
- 9. Guresci, E. (2015) 'Farming in the Forests of Black Sea Coastal; Case Study of Black Sea Region in Turkey', Procedia Economics and Finance. Elsevier B.V., 23(October 2014), pp. 628–629. doi: 10.1016/s2212-5671(15)00360-3.
- 10. Hertanto, E. (2017) 'Teori Kompetensi Manajemen Sumber Daya Manusia', Manajemen Sumber Daya Manusia, (November), pp. 1–7.
- 11. Junaidi (no date) Tabel r (Koefisien Korelasi Sederhana), Art & Photos. Available at: https://www.slideshare.net/hendrayudha9028/19-tabelnilaikritisrpearson.
- 12. Kec. Prigen (no date). Available at: https://www.google.com/maps/place/Kec.+Prigen,+Pasuruan,+Jawa+Timur/@-
- 7.6906302,112.5678194,12z/data=!3m1!4b1!4m5!3m4!1s0x2dd7d7ec1e43e171:0xb5cb192d43f3ae3d!8m2!3d-7.6965985!4d112.6437026.
- 13. Linan, F. and Chen, Y.-W. (2011) 'Development and Cross-Cultural Application of a Specific Instrument to Measure Entrepreneurial Intentions', Development Dialogue, (56), pp. 35–39.
- 14. NGalamediaLABS (2013) Taman Hutan Raya Raden Soeryo, 12th October 2013. Available at: http://ngalam.id/read/1362/taman-hutan-raya-raden-soeryo/ (Accessed: 24 May 2020).
- 15. Nugroho, M. (2018) 'Bab 2. Kajian Pustaka', in PROPOSAL DISERTASI. Malang: PROGRAM DOKTOR KAJIAN LINGKUNGAN DAN PEMBANGUNAN PROGRAM PASCASARJANA UNIVERSITAS BRAWIJAYA MALANG 2018.
- 16. Nugroho, M. et al. (2019) 'Forest Vegetation Profile for Springs Preservation in Arjuna Mount, East Java-Indonesia', American Journal of Agriculture and Forestry, 7(6), pp. 290–296. doi: 10.11648/j.ajaf.20190706.17.
- 17. PEMERINTAH PROVINSI JAWA TI (2015) 'RENCANA KINERJA TAHUNAN (RKT) DINAS PERTANIAN PROVINSI JAWA TIMUR TAHUN 2015'.

- 18. Pengertian Kompetensi Manajemen SDM (no date). Available at: https://ilmumanajemenindustri.com/pengertian-kompetensi-competency-dalam-%09manajemen-sdm/ diakses 2019.
- 19. 'peta-jalur-pendakian-gunung-arjuno-welirang.pdf' (no date).
- 20. Priyatno, D. (2010) Paham Analisa Statistik Data dengan SPSS. MediaKom, Yogyakarta, Indonesia.
- 21. Purba, L. and Hermanto, Y. (2020) KOMPETENSI MANAJEMEN DAN ORIENTASI KEWIRAUSAHAAN PEMUDA DI PEDESAAN LERENG GUNUNG ARJUNA JAWA TIMUR. Surabaya.
- 22. Sari, E. T. (2013) 'Entrepreneurial Intention among Employees', Jurnal Entrepreneur dan Entrepreneurship, 3, pp. 39–48.
- 23. Siswanto, W. (2017) 'Conservation Area Management in Indonesia', p. 24. Available at: http://www.forclime.org.
- 24. Spencer, J. L. M. and Spencer, S. M. (1993) Competence at Work: Models for Superior Performance. 1st edn. New Jersey: John Wiley & Sons, Inc.
- 25. Sugiyono (2007) Metode Penelitian Bisnis. Bandung: CV. Alfabeta.
- 26. Sugiyono (2019) Metode Penelitian & Pengembangan (Research and Development/R&D). Edited by S. Suryandari. Bandung: ALFABETA, CV.
- 27. SustainAbility (2020) 'What' s next for sustainable business? Trends 2020'.
- 28. Yudohartono, T. P. (2008) 'Peranan Taman Hutan Raya Dalam Konservasi Sumberdaya Genetik: Peluang Dan Tantangannya', Informasi Teknis, 6(2), pp. 1–6.
- 29. Yulaswati, V. (2020) 'SDGs IMPLEMENTATION IN INDONESIA'.

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Lasman Parulian Purba is a permanent Lecturer of Engineering Faculty of Darma Cendika Catholic University. He also served as Head of the Center for Sustainable Development Studies besides Head of the Business Incubator University of Catholic Darma Cendika. He was awarded a full scholarship to take a Master of Engineering Degree from Thai Government namely The NRCT-JSPS (National Research Council of Thailand – Japan Society for the Promotion of Science) Joint Research Program from Prince of Songkla University Thailand (PSU Hat Yai Campus) in 2006. His bachelor of engineer (graduated: 2000) was from Sepuluh Nopember Institute of Technology Surabaya (ITS Surabaya). He is an Asst. Professor since 1st April 2006. He also awarded as Senior Professional Engineer (Certification Number: 2-07-00-000814-00) from The Instution of Engineers, Indonesia (BKTI-PII).

Yustinus Budi Hermanto

Jl. Dr. Ir. H. Soekarno No. 201, Surabaya, 60117, East Java - Indonesia.

ORCiD ID: 0000-0002-4117-5750

Y. Budi Hermanto is a permanent Lecturer of Economic Faculty of Darma Cendika Catholic

University. He also served as Rector of the Universitas Katolik Darma Cendika (Darma Cendika Catholic University) and a Pastor. He is an Asst. Professor.

Management Competency and Entrepreneurial Intention of the 60-Young Villagers in a Part of Slope of Mt. Arjuna East Java Indonesia

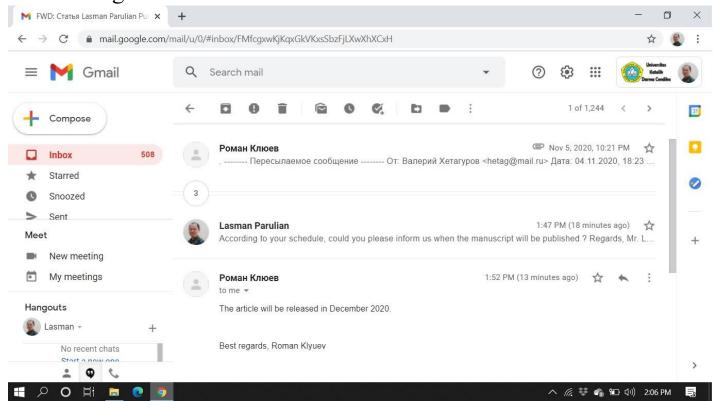
Our interest is to explore such a characteristics of the young villagers who live in the slope of Mountain Arjuna, East Java Province of Indonesia prior to their existing management competency and existing entrepreneurial intention.

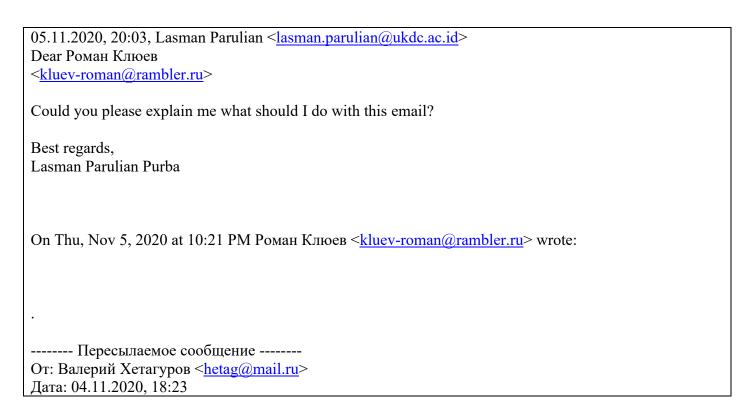
Keywords: system engineering; industrial management; modelling; sustainable development; decision making

УДК Фото авторов Referats

TAHAP 4: Penulis menanyakan maksud dari email sebab email balasan dan nama file pengantar berbahasa Rusia

Pada 05.11.2020 pkl 20:03, <u>lasman.parulian@ukdc.ac.id</u> berkirim email sebagai berikut:



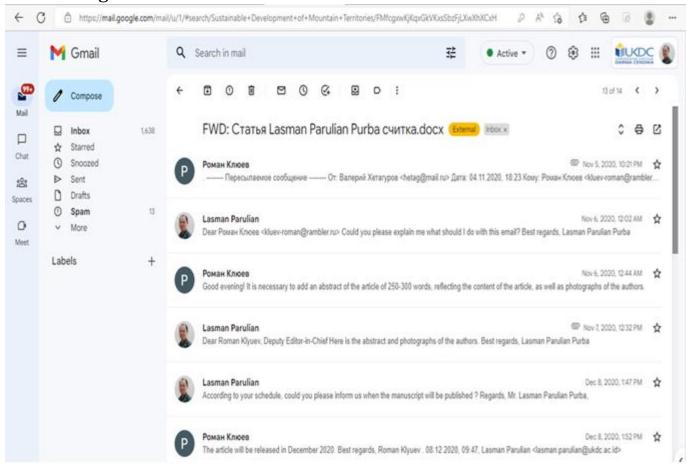


Кому: Роман Клюев < <u>kluev-roman@rambler.ru</u> > Тема: Статья Lasman Parulian Purba считка.docx
Править.
С уважением Валерий Хетагуров
тел. +7(8672) 407-360
тел. +7-903-484-98-63

TAHAP 5: Respon Editor dan Penerimaan Awal atas email yang dikirimkan sebelumnya.

Pada 6 November 2020 pada pkl 12:44 AM Editor dari Sustainable Development of Mountain Territories Роман Клюев <<u>kluev-roman@rambler.ru</u>> mengirimkan email penjelasan arti dari email sebelumnya. Email respon dari Editor ini menyatakan bahwa Artikel diminta untuk merevisi Abstrak dan photograph dari para penulis.

Manuskrip telah mendapatkan komentar dari editor, dibuktikan dengan email sebagai berikut:



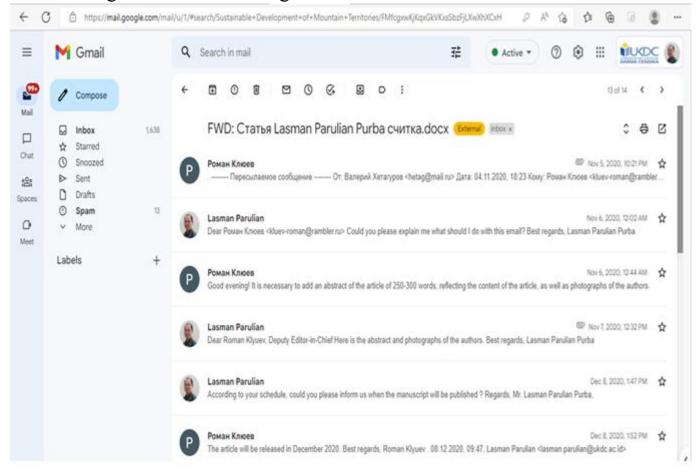
On Fri, Nov 6, 2020 at 12:44 AM Роман Клюев < <u>kluev-roman@rambler.ru</u>> wrote: Good evening!

It is necessary to add an abstract of the article of 250-300 words, reflecting the content of the article, as well as photographs of the authors.

Best regards, Roman Klyuev, Deputy Editor-in-Chief

TAHAP 6: Mengirimkan Revisi Abstract dan Foto dari para Penulis

Pada hari Sabtu, tgl 7 November 2020 pkl 12:32 PM siang, corresponding author mengirimkan email sebagai berikut:



On Sat, Nov 7, 2020 at 12:32 PM Lasman Parulian < <u>lasman.parulian@ukdc.ac.id</u>> wrote: Dear Roman Klyuev, Deputy Editor-in-Chief

Here is the abstract and photographs of the authors.

Best regards, Lasman Parulian Purba

Berikut file yang dikirimkan via email:

abstract and photographs of authors of the article :

#Abstract:

This is a very beginning basic research about the current characteristics of the 60-young villagers who leaved near the mountain Arjuna located in East Java Province of Indonesia. This research aims to gain an understanding what is the characteristics of the peoples in a part of slope of Mt. Arjuna. Our future research's goal is the young villagers become an entrepreneur as a way as well as an effort to encourage and fulfil the Sustainable Development Goals (SDGs) especially in family economics-development. In order to have better qualities in life and family economic-

development --as well as an effort to achieve SDGs of the 60-young villagers who live in the slope of the Mountain Arjuna, East Java Province of Indonesia-- it is a need to explore management competency and entrepreneurial intention of the peoples there. After the questionnaires spread to the villages in a part of the slope of mountain to sixty young villagers there, proceed and then analyzed through software SPSS, it was found that their intellectual competency, emotional competency and social competency was about 76%, 71% and 69%, respectively. Their entrepreneurial intention follows a linear regression equation of their personal attitude, subjective norm, and perceived behavioral control as an Entrepreneurial Intention Model (EIM) for the young villagers in the area. The results of the research as a starting point to generate innovations management for a better future goals for example as 8th Goal, one goal of the five goals in the Economic Pilar (decent work and economic growth) of SDGs.

#Photograph of Lasman Parulian Purba



Photograph of Yustinus Budi Hermanto





Photograph of Lasman Parulian Purba_600dpi.tiff 167K



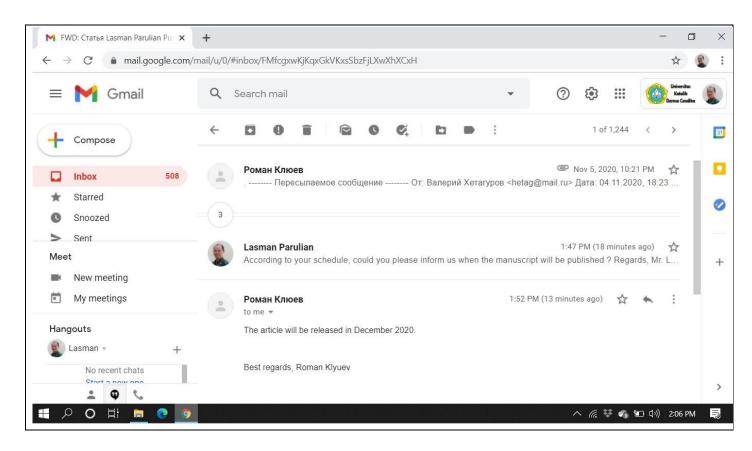
Photograph of Y Budi Hermanto_600dpi.tiff 617K

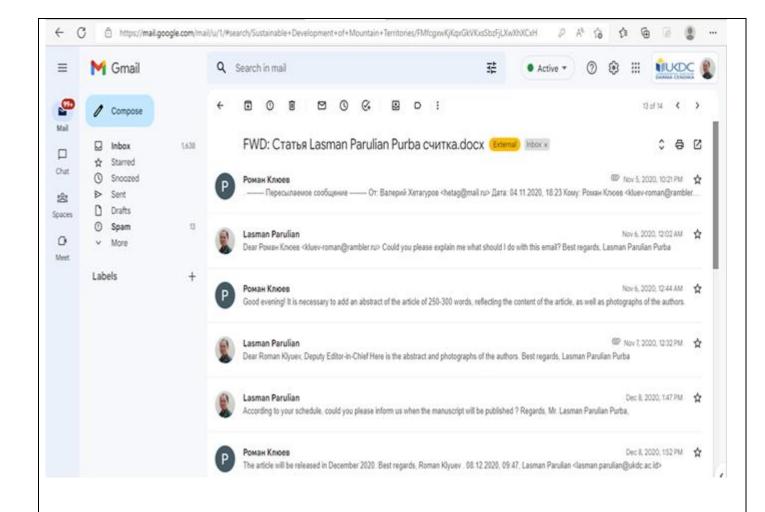


abstract and photograph of the authors.docx 114K

TAHAP 7: Memberanikan diri untuk menanyakan jadwal penerbitan

Memberanikan diri untuk menanyakan jadwal penerbitan, setelah menunggu lebih dari 30 hari (lebih dari satu bulan sejak mengirimkan email sebelumnya terkait revisi abstrak dan photograph yang diminta Deputy Editor-in-Chief). Email sebelumnya: terkirim tgl 7 November 2020 pkl 12:32 PM, lalu email Tahap 7 ini dikirimkan pada tgl 08.12.2020, 09:47 waktu setempat, corresponding author menuliskan suatu pertanyaan terkait jadwal penerbitan. Email dimaksud Adalah sebagai berikut:





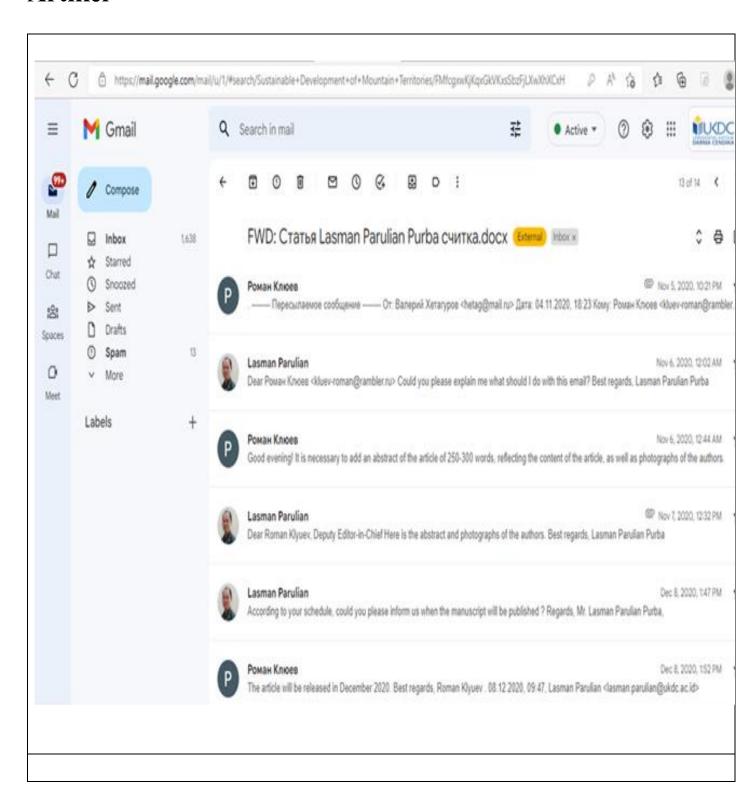
08.12.2020, 09:47, Lasman Parulian < <u>lasman.parulian@ukdc.ac.id</u>> Dear Roman Klyuev, Deputy Editor-in-Chief

According to your schedule, could you please inform us when the manuscript will be published?

Regards,

Mr. Lasman Parulian Purba,

TAHAP 8: Editor / Chief-Editor Роман Клюев <u>kluev-</u> <u>roman@rambler.ru</u> memberi Jawaban / Jadwal penerbitan Artikel



From: Роман Клюев <kluev-roman@rambler.ru>

Date: Tue, Dec 8, 2020 at 1:52 PM

Subject: RE: Статья Lasman Parulian Purba считка.docx To: lasman.parulian lasman.parulian@ukdc.ac.id

The article will be released in December 2020.

Best regards, Roman Klyuev

08.12.2020, 09:47, Lasman Parulian lasman.parulian@ukdc.ac.id Dear Roman Klyuev, Deputy Editor-in-Chief

According to your schedule, could you please inform us when the manuscript will be published?

Regards,

Mr. Lasman Parulian Purba,

On Sat, Nov 7, 2020 at 12:32 PM Lasman Parulian <asman.parulian@ukdc.ac.id> wrote: Dear Roman Klyuev, Deputy Editor-in-Chief

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Best regards, Lasman Parulian Purba

On Fri, Nov 6, 2020 at 12:44 AM Роман Клюев <kluev-roman@rambler.ru> wrote: Good evening!

It is necessary to add an abstract of the article of 250-300 words, reflecting the content of the article, as well as photographs of the authors.

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According to your schedule, could you please inform us when the manuscript will be published?

Regards,

Mr. Lasman Parulian Purba,

TAHAP 9: Artikel Terbit pada website resmi Sustainable Development of Mountain Territories

File terbitan dapat diakses pada website resmi" Sustainable Development of Mountain Territories, Vol. 12, No. 4, ISSN 1998-4502; e-ISSN 2499-975X Jurnal Internasional, Bereputasi SJR (2025): 0,626, Scopus Q-1, H-index: 19.

Identitas Jurnal:

Sustainable Development of Mountain Territories, Vol. 12, No. 4, ISSN 1998-4502; e-ISSN 2499-975X Jurnal Internasional, Bereputasi SJR (2025): 0,626, Scopus Q-1, H-index: 19.

Focus and Scope [Home]:

Cuplikan dari laman resmi Jurnal https://naukagor.ru/en-gb/ adalah sebagai berikut:



SUBJECT OF THE MAGAZINE

Since 2018, the journal "Sustainable Development of Mountain Territories" has been included in the international citation base Scopus with an approved topic for the following branches and groups of sciences:

- 1. Engineering.
- 2. Earth and Planetary Sciences.
- 3. Environmental Science.

In accordance with the conclusion of the Presidium of the Higher Attestation Commission of the Ministry of Education and Science of the Russian Federation, articles for publication in the journal "Sustainable Development of Mountain Territories" are accepted in the following fields and groups of sciences:

(geological and mineralogical sciences); 1.6.13. Economic, social, political and recreational geography (geographical sciences). 2.3.1. System analysis, management and information processing, statistics (technociences);		1.6.13. Economic, social, political and recreational geography (geographical sciences); 2.3.1. System analysis, management and information processing, statistics (technical sciences); 2.8.6. Geomechanics, rock destruction, mine aerogasdynamics and mining thermophysics (technical sciences); 2.8.8. Geotechnology, mining machines (technical sciences); 2.8.9. Mineral beneficiation (technical sciences).
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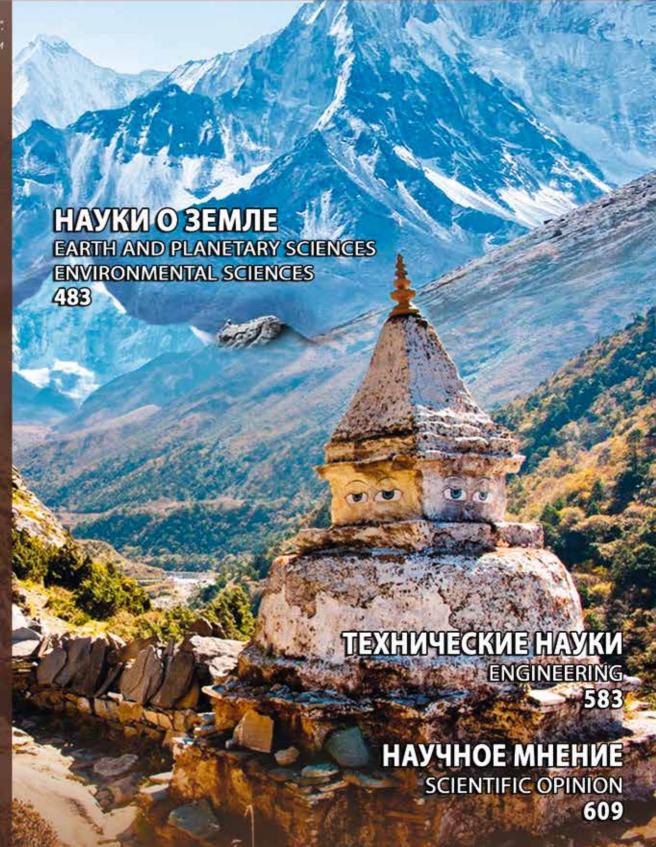


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Sustainable Development of Mountain Territories

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Our interest is to explore such a characteristics of the young villagers who live in the slope of Mountain Arjuna, East Java Province of Indonesia prior to their existing management competency and existing entrepreneurial intention.

MANAGEMENT COMPETENCY AND ENTREPRENEURIAL INTENTION OF THE 60-YOUNG VILLAGERS IN A PART OF SLOPE OF MT. ARJUNA EAST JAVA INDONESIA

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1. Introduction

This is a very beginning basic research that explore such a good potential of young villagers in a part of the slope of the Mountain Arjuna (sometimes called Arjuno) located administratively between Batu City (Malang Regency) and Pasuruan Regency in East Java Province of Indonesia since there is no publication until this report is written especially about the current characteristics of the 60-young villagers who leaved near the mountain Arjuno. Mountain Arjuno is a volcano cone with height 3.339 meters upper the sea level (Gunung Arjuno, 316AD; Dan, 2016). Management of the mountain is called as the Taman Hutan Raya (Grand Forest Parks) R. Soeryo (sometimes called as R. Surjo or Raden Soerjo) which total area of the forest was 27.868,30 ha based-on Decree of the Ministry of Forestry Indonesia No. 80/ Kpts-II/2001, 19 Mei 2001 (Yudohartono, 2008; Siswanto, 2017). The Grand Forest Parks R. Soeryo administratively located in Tulungrejo Village, Batu City, Malang Regency, East Java Province, Indonesia at 112° 32' 00" East Longitude and 7° 44' 30" South Latitude (NGalamedia LABS, 2013; Dan, 2016). Areas of the Grand Forest Park were lies in the five different Regency area of East Java Province i.e.: Mojokerto Regency, Malang Regency, Jombang Regency, Pasuruan Regency and Batu City. There are seven mountains included in the Grand Forest Parks R. Soeryo i.e: Mt. Arjuno (3.339 m), Mt. Welirang (3.156 m), Mt. Anjasmoro (3.217 m), Mt. Kembar I (3.061 m), Mt. Biru (2.337 m), Mt. Kembar II (3.256 m) and Mt. Ringgit (2.474 m) (NGalamediaLABS, 2013). In Pasuruan Regency, there are only two districts lies in the slope of Mt. Arjuno i.e: Prigen District and Puwodadi District. There are fourteen villages in the Prigen district of the Pasuruan Regency, and thirteen villages in the Purwodadi District (BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS - Statistics of Pasuruan Regency, 2020). The villages near the Mt. Arjuno in Prigen District are Jatiarjo Village, Dayurejo Village, Lumbangrejo Village, Ledug and Pecalukan. The villages near the Mt. Arjuna in Purwodadi District are Tambaksari Village, Jatisari Village and Pucangsari village. Area of the forest on the mountain especially in Pasuruan Regency was about 12,000 ha. There are only 300 ha of 1,500 ha that conserved the forest which broke caused by fire in 2012 (Nugroho et al., 2019).

2. Conceptual development

Forest areas are an important land of agricultural production or farming (Guresci, 2015). According to the forest conservation as proposed and implemented by (Nugroho, 2018; Nugroho *et al.*, 2019), this research aims to gain an understanding what is the characteristics of the peoples near the Mountain Arjuno especially young villagers in their management competency and their entrepreneurial intention. We hope, in the next time, the people especially their young villagers will have better qualities

KEYWORDS:

system engineering; industrial management; modelling; sustainable development; decision making

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in life as the strategic planned and processed by (Dinas pertanian jawa timur, 2014; PEMERINTAH PROVINSI JAWA TI, 2015; Dinas Pertanian Provinsi Jawa Timur, 2016; Bappeda, 2017) which is supported by our research concept shown in figure 1.

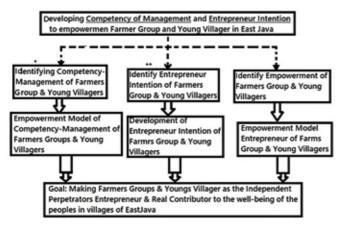


Fig. 1. Roadmap / Concept of our research (Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, 2019), parts of * and ** is reported in this paper works

There are three individual competencies-management that need to know-well in every body in order to success in their work as well (Spencer and Spencer, 1993; Hertanto, 2017). Here in this research work we put in the question-naires with 9 indicators used to detect the intellectual-competence of the young villagers (42 respondents from Dayurejo Village, 18 respondents from Jatiarjo Village), 5 indicators for the emotional-competence and 7 indicators for the social-competence. Total respondents were sixty as we don't know population but we have four variables that's why it is a must at least 40 respondents (Sugiyono, 2019). Our future research's goal is the young villagers become an entrepreneur; their family economic-development become sustainable as SDGs (SustainAbility, 2020; Yulaswati, 2020).

Model Core Entrepreneurial Intention of the young villagers was adopted from (Linan and Chen, 2011; Sari, 2013), shown in figure 2.

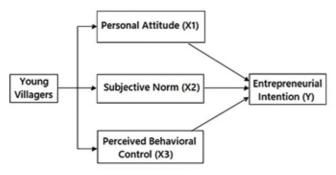


Fig 2. Concept development about entrepreneurial intention model

3. Methodology of research

It was developed a list of indicators to the concept as discussing above in a questionnaires (the EIQ, Entrepreneurial Intention Questionnaire) follow (Linan and Chen, 2011; Sari, 2013). which is *X*1 with 5 indicators, *X*2 with 5 indicators (adopted from (Linan and Chen, 2011; Sari, 2013), *X*3 use the same indicators as (Linan and Chen, 2011; Sari, 2013) and *Y* use the same indicators as (Linan and Chen, 2011; Sari, 2013) for young villagers.

Table 1 Comparison of sum of the EIQ' indicators

Variables	(Linan and Chen, 2011)	(Sari, 2013)	Proposed
PA, X1	5 indicators	5 indicators	5 indicators
SN, X2	3 indicators	7 indicators	5 indicators
PBC, X3	6 indicators	5 indicators	6 indicators
EI, Y	6 indicators	5 indicators	6 indicators

The questionnaires spread to the villages in a part of the slope of the mountain to sixty young villagers there. After collecting the data from the questionnaires then proceed and analyzed them through software Statistical Packages for Social Sciences (SPSS) version 21.0, respectively.

4. Analysis

About 60 of 100 respondents are the young villagers (Badan Pusat Statistik Provinsi Jawa Timur, 2016) which is the persons who have 16 to 30 years old prior to the survey conducted. It was found that there are 30% of the *Table 2*

Kinds of farming of the young villagers (Primary data, analyzed (2020))

No.	Kind of Farming	Frequency
1	Coffee	24
2	Banana	13
3	Cassava	12
4	Clove	11
5	Corn	11
6	Avocado	11
7	Durian	9
8	Pineapple	3
9	Jackfruit	3
10	rambutan	3
11	Soursop	2
12	Rice	1
13	Carrot	1
14	Elephants' grass	1
15	Strobery	1
16	Eggplant	1
17	Orange	1
18	Guava	1
19	Vegetable	1
20	Sea-wood	1
21	Tree	1
22	Petai	1
23	Grape	1

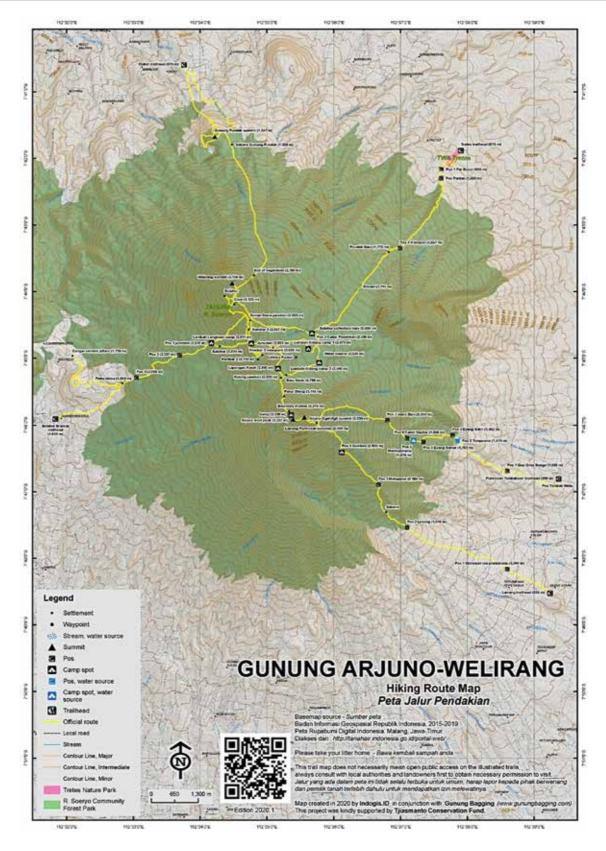


Fig. 3. Location of the research participants especially from Tretes Route ('peta-jalur-pendakian-gunung-arjuno-welirang.pdf', no date; Dan, 2016)

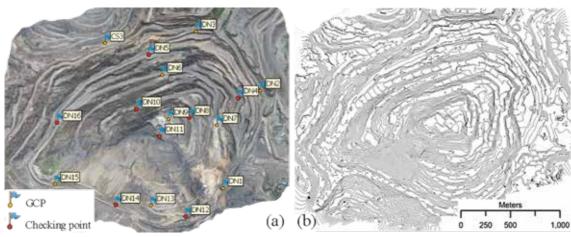


Fig. 4. Location of the Young Villagers in the Prigen Subdistrict, Pasuruan Regency, East Java Province, Indonesia (Kec. Prigen, no date)

young villagers comes from Senior High School and 70% from others (35% Junior High School, 27% graduated from Foundation School and 8 not graduate from any others school). There are 52% man and 48% women. They came from Dayurejo Village, Jatiarjo Village of Prigen District (shown in Fig 3. and Fig 4.).

From all the young villagers surveyed, 38% have their own land but 62% not (they borrow land from other people in the village). Most of the young villagers, 93% was become a farmer less than or equals to 5 years and the rest more than 5 years, respectively. There are six kinds of farming of the young villager diligence i.e.: coffee farming, banana farming, cassava farming, avocado farming, cloves farming and corn farming (shown in Table 1).

There are 57% of the young villagers stated that they receive benefit when they do their farming beside 43% do not receive benefit. The farming that they do still in less coordination. The farming is done 80% by inter cropping and 20% is not. For the 61% of the young villagers agreewell about bee cultivation but there are 20% was not agree.

Through this research it is a need to explore how the young villagers manage themselves and or other peoples in term of the farming that they have done before. We then use questionnaires based-on (*Pengertian Kompetensi Manajemen SDM*, no date) to understand their personalities, knowledges and skills. In this research work we do not take into accounts personalities of the young villagers according to the lack of information we have and our research background.

The young villagers informed that the knowledge about farming come from themselves (42%), work in group (11%). Their knowledge about management theory came from themselves reach 50% but from work in group about 8%. There are only 25% of the young villagers has a group work and 75% are not. Every group work has a functional leader. Usually, they sell their crop of farming in the original form (66%) directly by themselves (37%) and by middleman (63%). Their crop of farming can be found only in the next near after the crops time in the tour objects which is not so far from their village such as tradi-

tional market, Taman Safari market, Taman Dayu, Cheng Ho, Pintu Langit, Jatiarjo Gifts Store and Makoya.

They obtained skills in farming from training (63%), themselves (36%) and Television program (2%), but they do farm without a group leader (64%) and with a group leader (36%). Ability to find skill (self-learning) by themselves is pretty high (67%) and without ability to find (selflearning) by themselves 33% although they have ability to teach other (34%) and but there are 65% of the young villagers cannot teach other in farming skill. From the questionnaire also found that there are 45% can do farming stand alone and 55% cannot do farming stand alone. Their life is adequate, 44% and non-adequate, 56%. The young villagers have a working group of farming (24%) and have not a working group of farming (76%). Skill that they have in farming also the same as their knowledge about farming i.e.: coffee farming (1st), banana farming (2nd), cassava farming (3rd), avocado (4th), clove (5th) and corn (6th).

The average of intellectual competency (ten indicators) of the young villagers was 3.81 out of 5.00 (Likert's scale, 1=very not agree, 2=not agree, 3= neutral, 4= agree, 5=very agree) which is 76%, range from 3.53 to 4.27. The average of emotional competency (5 indicators) of the young villagers was 3.56 / 5.00 which is 71%, range between 3.50 and 3.68. The average of social competency (7 indicators) of them was 3.45 (69%) in the range of 3.22 to 3.67.

After analysis by using SPSS, all of the items in the questionnaires are valid with r_calculated > r_table (0.2542) as of Pearson correlation method (Product Moment) as N=60, df=60–2=58 for two-tailed of significant at least at 95% level (p < 0.05) for all of indicators. (Junaidi, no date).

To test reliability of the proposed scales was using the usual threshold level of Cronbach's alpha 0.7 for newly developed measures as (Sugiyono, 2019). In this case, the values for four variables (PA, SN, PBC and EI) were 0.922, 0.786, 0.922 and 0.946. Thus, the theoretically developed scales may be considered as reliable. The results affirmed by (Linan & Chen, 2011; Priyatno, 2010; Sari,

2013; Sugiyono, 2007, 2019) which values of *Cronbach's Alpha* more than 0.6.

The independent (inputs) variables i.e.: X1, X2 and X3 (together) effects the dependent (output) variable, Y with regression equation as:

$$Y = -2.158 + 0.701 X1 + 0.350 X2 + 0.248 X3$$
. (Eq. 1)

Coefficient correlation (simultaneously) of inputs to output, R is 0.846. According to the interpretation of the coefficient correlation, R by (Sugiyono, 2007, 2019), the R value 0.846 is fall in the range 0.80 – 1.000 so that there is a very strong correlation among inputs to effect output.

The value of R^2 (coefficient determination) was 0.715, it means that variation of input variables i.e. Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) could explains only 71.5% the Entrepreneurial Intention (Y) variation. Adjusted R Square were 0.700, with Std. Error of Estimate 2.127.

F-test results show that F_calculated was 46.854 which is more than F_table (2.769) with the level of significant, =0.05, means that Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together affect Entrepreneurial Intention (Y).

Because T_calculated through SPSS for every independent variable were more than T_table (2.003), means that every input variable partially gives positive effect for output variable.

5. Discussion and adoption

The 60-young villagers, in general: graduate from Senior High School, came from Dayurejo Village and Jatiarjo Village, do farming already less than 5 years, have knowledge in farming by themselves but they do farming

(coffee, banana, cassava, avocado, clove and corn) not in their own land. They do not have group work on farming although in the same time they do farm. Their ability to self-learning on farming quite high and they cannot teach other do the same as they do. They have skill on farming from training, but the trainer probably was their parents and or their family member.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency could be stated as follows: they have average 76% intellectual competency, emotional competency 71% and social competency 69%.

The characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their entrepreneurial intention could be stated as the linear regression model (Eq. 1). The equation can be stated as an Entrepreneurial Intention Model for the young villagers based-on data analyzed.

The Eq 1 only based-on the 60 data, and this is as a starting point to generate innovation management for a better future goals that is a must following Sustainable Development Goals in the area (Yulaswati, 2020).

6. Conclusions

It was found what is the characteristics of the peoples near the Mountain Arjuno especially for the 60-young villagers in their management competency and their entrepreneurial intention. They have averaged 76% of intellectual competency, 71% of emotional competency and 69% of social competency. The Personal Attitude (X1), Subjective Norm (X2) and Perceived Behavioral Control (X3) together effects the Entrepreneurial Intention (X4) with model regression equation as: X6 = -2.158 + 0.701 X1+ + 0.350 X2 + 0.248 X3.

REFERENCES:

- 1. BADAN PUSAT STATISTIK KABUPATEN PASURUAN BPS Statistics of Pasuruan Regency (2020) 'Kabupaten Pasuruan Dalam Angka Pasuruan Regency in Figures 2020', (1102001.3514), p. 304. Available at: https://pasuruankab.bps.go.id.
- 2. Badan Pusat Statistik Provinsi Jawa Timur (2016) STATIS-TIK PEMUDA PROVINSI JAWA TIMUR 2016.
- 3. Bappeda (2017) 'Data Dinamis Provinsi Jawa Timur', pp. 1–144.
- 4. Dan (2016) *Arjuno*, *July 3, 2016*. Available at: http://www.gunungbagging.com/arjuno/ (Accessed: 24 May 2020).
- 5. Dinas pertanian jawa timur (2014) 'Rencana Strategis Satuan Kerja Perangkat Daerah (RENSTRA SKPD)'.
- 6. Dinas Pertanian Provinsi Jawa Timur (2016) 'PEMER-INTAH PROVINSI JAWA TIMUR HORTIKULTURA JAWA TIMUR ISSN 1412-1352'.
- 7. Direktorat Riset dan Pengabdian Masyarakat Direktorat Jenderal Riset dan Pengembangan Kementrian Riset, Teknologi, dan P. T. (2019) 'Pengembangan Kompetensi Manajemen dan Orientasi Kewirausahaan dalam Rangka Pemberdayaan

Kelompok Petani dan Pemuda Pedesaan Di Jawa Timur'. doi: 1a633551-34df-4b0e-9528-2b4d251bf984.

- 8. *Gunung_Arjuno* (316AD). Available at: https://id.wikipedia.org/wiki/Gunung_Arjuno.
- 9. Guresci, E. (2015) 'Farming in the Forests of Black Sea Coastal; Case Study of Black Sea Region in Turkey', *Procedia Economics and Finance*. Elsevier B.V., 23(October 2014), pp. 628–629. doi: 10.1016/s2212-5671(15)00360-3.
- 10. Hertanto, E. (2017) 'Teori Kompetensi Manajemen Sumber Daya Manusia', *Manajemen Sumber Daya Manusia*, (November), pp. 1–7.
- 11. Junaidi (no date) *Tabel r (Koefisien Korelasi Sederhana)*, *Art &Photos*. Available at: https://www.slideshare.net/hendrayudha9028/19-tabelnilaikritisrpearson.
- 12. *Kec. Prigen* (no date). Available at: https://www.google.com/maps/place/Kec.+Prigen,+Pasuruan,+Jawa+Timur/@-7.6906302,112.5678194,12z/data=!3m1!4b1!4m5!3m4!1s0x2dd7d7ec1e43e171:0xb5cb192d43f3ae3d!8m2!3d-7.6965985!4d112.6437026.

- 13. Linan, F. and Chen, Y.-W. (2011) 'Development and Cross-Cultural Application of a Specific Instrument to Measure Entrepreneurial Intentions', *Development Dialogue*, (56), pp. 35–39.
- 14. NGalamediaLABS (2013) *Taman Hutan Raya Raden Soeryo*, *12th October 2013*. Available at: http://ngalam.id/read/1362/taman-hutan-raya-raden-soeryo/ (Accessed: 24 May 2020).
- 15. Nugroho, M. (2018) 'Bab 2. Kajian Pustaka', in *PRO-POSAL DISERTASI*. Malang: PROGRAM DOKTOR KAJIAN LINGKUNGAN DAN PEMBANGUNAN PROGRAM PASCASARJANA UNIVERSITAS BRAWIJAYA MALANG 2018.
- 16. Nugroho, M. *et al.* (2019) 'Forest Vegetation Profile for Springs Preservation in Arjuna Mount, East Java-Indonesia', *American Journal of Agriculture and Forestry*, 7(6), pp. 290–296. doi: 10.11648/j.aiaf.20190706.17.
- 17. PEMERINTAH PROVINSI JAWA TI (2015) 'REN-CANA KINERJA TAHUNAN (RKT) DINAS PERTANIAN PROVINSI JAWA TIMUR TAHUN 2015'.
- 18. Pengertian Kompetensi Manajemen SDM (no date). Available at: https://ilmumanajemenindustri.com/pengertian-kompetensi-competency-dalam-%09manajemen-sdm/ diakses 2019.
- 19. 'peta-jalur-pendakian-gunung-arjuno-welirang.pdf' (no date).

- 20. Priyatno, D. (2010) *Paham Analisa Statistik Data dengan SPSS*. MediaKom, Yogyakarta, Indonesia.
- 21. Purba, L. and Hermanto, Y. (2020) KOMPETENSI MANAJEMEN DAN ORIENTASI KEWIRAUSAHAAN PEMU-DA DI PEDESAAN LERENG GUNUNG ARJUNA JAWA TIMUR. Surabaya.
- 22. Sari, E. T. (2013) 'Entrepreneurial Intention among Employees', *Jurnal Entrepreneur dan Entrepreneurship*, 3, pp. 39–48.
- 23. Siswanto, W. (2017) 'Conservation Area Management in Indonesia', p. 24. Available at: http://www.forclime.org.
- 24. Spencer, J. L. M. and Spencer, S. M. (1993) *Competence at Work: Models for Superior Performance*. 1st edn. New Jersey: John Wiley & Sons, Inc.
- 25. Sugiyono (2007) *Metode Penelitian Bisnis*. Bandung: CV. Alfabeta.
- 26. Sugiyono (2019) *Metode Penelitian & Pengembangan (Research and Development/ R&D)*. Edited by S. Suryandari. Bandung: ALFABETA, CV.
- 27. SustainAbility (2020) 'What' s next for sustainable business? Trends 2020'.
- 28. Yudohartono, T. P. (2008) 'Peranan Taman Hutan Raya Dalam Konservasi Sumberdaya Genetik: Peluang Dan Tantangannya', *Informasi Teknis*, 6(2), pp. 1–6.
- 29. Yulaswati, V. (2020) 'SDGs IMPLEMENTATION IN INDONESIA'.

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УПРАВЛЕНЧЕСКАЯ КОМПЕТЕНТНОСТЬ И ПРЕДПРИНИМАТЕЛЬСКИЕ НАМЕРЕНИЯ МОЛОДЫХ СЕЛЬЧАН, ПРОЖИВАЮЩИХ НА СКЛОНЕ г. АРДЖУН (ВОСТОЧНАЯ ЯВА, ИНДОНЕЗИЯ)

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Наш интерес заключается в том, чтобы изучить характеристики молодых сельских жителей, которые живут на склоне горы Арджуна, провинция Восточная Ява в Индонезии, в рамках существующей управленческой компетентности и существующих предпринимательских намерений.

Ключевые слова: системный инжиниринг; промышленный менеджмент; моделирование; устойчивое развитие; принятие решений.

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