compound, which has been found to answer with marked success in the Persian Gulf cable. At the termination of these accalled intermediate portions, the deep sea cable we have already described is continued acres the Atlantic to near St. Pierro.

It is in the nature of all practical sciences to advance, and, in spite of all improvements which seem is leave nothing to be desired to keep advancing every year. In not ing is this great truth more etrongly exemplified than in the manufacture and working of submarine cables. Every new one is better than that which preceded it. In the Malta and Alexandrie cable it was thought that at leat true perfect on had been sitained, but the next one or Persian fail was better still. The Atlantic cable of 1860 was better still. The standard of the manufactured value of a cable is ludged by what are called its units of resistance. There is shways a certain amount of resistance is measured by the glivanomeirs and conductor and the more perfect the insulation of the being the resistance will be. This mount of resistance is measured by the glivanomeirs and conductor and the measured by the glivanomeirs and conductor is measured by millions of units. Thus, a cable which one land is million of units would an leakage allowed the current of units. Thus, a cable which one one show that it was defective, and the could was capacity in a cable which we do not allowed the cable of the free shall be of the free that of

A NEW BAILROAD PROJECT.

N a late issue of the Sinckholder a new railway cheme is announced, that, for brilliancy of conception and improbability of realization, cisions a high place among the large desires with most uncertain issues, of the contury is so proude, that paper says it is understood that the thicage and Northwestern and the Milwaukee and St. Paul Rauway companies will bond a new rathresd on an air time from t hicago.

and the minesate and of the minesay companies with band a new railroad on an air time from a bring of the wild fork, making no combinations with emitting more, but building a road wholly new, deviating from a straight line only to torn the southern extremines of Lakes Michigan and Eric This, says the Stockholder, with make a road only 720 miles long, that is 185 miles shorter than the routes via Aisgara fails and Buffalo. It adds,
To until and thoroughly equip the new time \$50-000 a mile is estimated, which makes the cost for the 720 miles \$23,000,000 though the capital of the new company will probably be fixed at \$60,000.00 The cost of leading railways of the country, as represented in stock and bonds, has been about \$50,000 per only including equipments, stations, depois, machinery, &c. but as most of them have suffered from exponsive financiering, the roal cost should in fact be set down at a much less figure. The financial strength if the eminipal capitalists engaged in the new plan if the eminipal capitalists engaged in the new plan. of the eminent capitaints engaged in the new plan was enable them to build a road for each, thus eaving an eachiers in stocks and bonds such as have swotten the construction account of the roads now in courstion

The road for the whole distance can be completed in one year, the construction by sections simul-inneously going on Double track will be laid the entire length

entire length.

This is certainly a very fine project and looks remarkably well on paper, but in carrying it out the projectors would experience some difficulty. Supposing its estimate of the trifling cost of such raisway to be correct and that the financial strength of the eminent capitalists engaged in the new plan" would enheur the projectors would be the financial strength of the cminent capitalists engaged in the new plan" would enheur the projector of the cminent capitalists engaged in the new plan" would enheur to build the line, there remains the different States to construct the railway in opposition to exist tag powerful companies. Such an "air-tho-railway" must cross New Jersey in opposition to the New Jersey the opposition to the New Jersey than the New Jersey the opposition to the New Jersey the New Jers

opposition of the Pennsylvania Central, and must en-counter similar opposition in crossing Ohio and In-diana, in order to get into Illinois and reach Chicago Considering what it would coat in currency, to buy up six legislatures, against the combined opposition of powerful and wealthy railread corporations whose interests it would directly injure, we doubt if even the most enaguine triends of the scheme would ever seriously undertake the task of carrying it through.—N.

EMIGRATION.

THIS subject has been so long before the public, and so frequently and forcibly arged on the and so frequently and forcilly arged on the attention of both the Federal and Local Legislatures, that it seems almost superfluous to bring it up again for consideration. We cannot account for the indifference manifested or this question. At firsts reasonable excuss was found in the number and importance of the measures that, owing to Confederation, domaided the attention of the General and Local Governments. These was to some output descent of

able excuse was found in the number and importance of the measures that, owing to Confederation, on maded the attention of the General and Local Governments. These are to some extent disposed of Shil emigration that measure of all others most vital to us is put of from day to day as one of those things that can want, while a mass of local legislation, affecting only individuals or incorporated companies meets whith prompt citention. We believe that some scheme of emigration has been devised between the Federal and Local tovernments, allotting to each certain duties and responsibilities. Uf that scheme we know almost nothing, as it is still in the womb of official reticence. But we know that while our legislators are consulting, debating and portioning out the duties of each Government, others are resping a rich harvest of emigrants; that while we are waiting on concurrent action concurrent administration and concurrent division and allottment of duties the Amorican Etacus. The softly attracting to themse was the redundant and valuable labor of Greal Britain and Europe.

While we admit that some delay was unavoidable, and while we are willing to concede that it required much time, patience and adhift to initiate our new system of covernment, and adapt its machinery to our new position, we cannot admit that so important a measure as enigration can longer be put in the background and made to wait on other questions of the Bookanan, the Executive of that branch of the Department, same chaing sist than nothing has been done to promote emigration. This absence of effort may be owing to some legitimate cause, unknown to the public, and we are content to be satisfied with even this shadowy excuse. Sur, in the meantime, what has been the result. If we were satisfied to wait patiently for other executive or legislative action in a absence of which has paralysed the old system of emigration. Such as it was, other countries were industrious to the public, and we are content to be satisfied with even this shadowy excuse. Su

gration, were added to the subjects of the Bepublic a population nearly equal to that of the Province of Quebec.

Theoretically, economy is an excellent thing; but when carried to an extent that cramps or prevents development, it becomes victous in policy, and obstructs gubile progress. Last year the printing-kinfe was applied to the Emigration branch of the Department of Agriculture with no very sparing hand. This may have been necessary, as the finances of the Dominion were not methodized, nor the revenue closely sacertained. We do not card hat this policy of retrenchment, nor refuse to our financial reformers the merit of doing what they considered the best for the public service, but we refer to it as showing that good ponce and economy are not aways consistent, and that the one may sometimes be in antagonism to the other. We have always regarded the publication of the Emigration Careties as almost an indispensable auxiliary to the success of emigration. The issue of that paper ceased since last November twelve month, and the result is contained in the following letter of Mr. Dixon, the Canadian Agent in England, We should notice the fact, that at no provious period in England was labor more redundant than now, and that not only the poor, but the wealthy are looking to emigration as the only agency that can afford relief to those out of employment and those miserably paid for their isbor, to relieve or lesson a destitution that iteratens to become chronic in Great Britain. Under this pressure the leaders of the emigration movement, who naturally look to the colonies and dependencies of the Crown as the more restoral localities in which to wassfer their superabundant population, applied to Mr. Dixon, our accretical dead of the Dominion afforded or offered to emigrants. His reply is this.—

Wolvenhaupten, Jan 20, 1869.

neither interest nor principal gives an uneasy thought. All this is highly encouraging. But if economy has helped to this pleasant result, and we do not deny it, will any thoughtful man caring for the toure, assert that this rigid economy ought to be continued at the expense of the development of the resources of the country? that for the sake of some thousands of delars, the parings from the Departments, we should forego the bonefite of sharing in the rich hervest of labor seeking employment, and let our waste lands romain barred and unproductive?

Mr. Dixon can do nothing in England, while other countries are experly appropriating the emigrant. He is ignorant of the measures of our Government, watting for instructions which never can reach him. The Emigration Gazette so eagerly sought for in treating for instructions which never can reach him. The Emigration Gazette so eagerly sought for in treating to instructions which never can reach him. The Emigration Gazette so eagerly sought for in treating to instructions which never can reach him. The Emigration Gazette so eagerly sought for in the eagerly to direct the attention of the emigrant to this country is asked for and desied, because not published. The Treasurer of this Province may look with complecency and pride at the amount he may be able to piace to our credit. But we would ask him to place as an off set the unreclaimed lands, to be counted by millions of acres, which abound in every section of the Province. We would ask him, and the Covernment what botter or more profitable investment could thereby, than that of settling these larve treats with an industrious population which would increasingly, year sifter year add largely to the revenue, and aid with a strong arm and a stout heart to give permanency to the new constitution.

The most produces possession the Government can have is a country without inhabitants, or with a strong arm and a stout heart to give permanency to the new constitution. We require now something more than trous a hand-to-mouth l

must remain so long as it is unpeopled. We suppose that the Federal and Local Governments have obtered on its solution. At least report has it that some preliminaries are arranged alloting to each its portion of the task. This question is one, however that cannot be shelved or tonger postponed, and if not taken up at once, earnestly and successfully on some broad and effective basis, then the Hudson's Bay lertitory had better, and even that of the Red River had better, and even that of the Red River had better, for a tew years, remain outside the Union.

We have waited with pattence the action of the Committee on Immigration, struck last session by our Legislature. Nothing, so far as we can learn, has yet been done by that Committee to solve, or assist in solving the grave question it was appointed to discuss. A few witnesses have been examined, but the practical results are yet to be discovered. That Committee has an important duty to perform. More superficial in quiry will not satisfy the public. It investigation must, to be useful, be both extensive and crucal. Of course the action of this Committee will be confined to this Province. In this Province the average population is about one family of five to the equation of the solution of the solution will be useful on a prompt remedy. One own interest, as a l'revince, in the question is garanment, and those who wish to study it and ascertina the tesses it throlves, would to well to peruse carefaily the speech of the tion his.

PORE-PACKING IN THE WEST.

T was variously estimated by good judges that the and the result is contained in the following letter of Mr. Dixon, the Canadian Agent in England. We should obtice the fact, that at no provious period in England was labor more redundant than now, and that not only the poor. but the wealthy are looking to emigration as the only agency, that can afford relief to those out of employment and those miserably paid for their ishor, to relieve or lesson a destitution into the fitting pressure the leaders of the emigration movement, who naturally look to the colonies and dependencies of the Crown as the more natural localities in which to transfer their superabundant population, applied to Mr. Dixon, our accredited Agent, to ascertain what sacility or encouragement the Dominion afforded or offered to emigratus. His roply is this.—

"Wolverhamptor, Jan 2), 1869.

"Dear Sirs.—I have not got emigration papers of any description, nor do I know when I shall have any The demand for them this winter has been examined they have the Department in working order.

"I am truly, yours.

There is one result of an economy, however judicions, a vest or two ago, that cannot now be defended. The Government of Outside boards of a large surplus of revenue that of Quebe gives a promise equally fizterial and sumination, which they and the revenue that of Quebe gives a promise equally fizterial and sumination, which they bear terms and extended the general dobt as a piezsant figurent.

We regard the general dobt as a piezsant figurent. hog crop of 1863 would, without doubt, reach